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UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
WASHINGTON, D. C.

HYDROLOGIC STUDIES

at the

WEST TARKIO CREEK DEMONSTRATION PROJECT

SCS-Ia-1

SHENANDOAH, IOWA

Compilation of
Rainfall, Run-off, and Soil Loss
from the
Tarkio River and West Tarkio Creek Watersheds
1934-40

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Hydrologic Division, Research
SCS-TP-42
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Tarkio River and West Tarkio Creek Watersheds
1934-40

By

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Hydrologic Division Research
SCS-TP-42
June 1941

CONTENTS

Foreword

The hydrologic and land use data included in this report are those collected at the West Tarkio Creek and Tarkio River watersheds during the period 1934-1940. No attempt has been made to interpret or analyze these data, the purpose of the report being merely to present all available data in a manner that will lend itself to subsequent interpretation and analysis.

I. History of the Project

Hydrologic studies were started at the West Tarkio Creek Demonstration Project in January 1934 when the Public Works Administration made an allocation of funds to the U. S. Geological Survey, primarily for the establishment and operation of stream-flow measurement stations and for obtaining records of movement of suspended matter at eight erosion control projects as Federal Project No. 180.

After the transfer of the Soil Erosion Service from the Department of Interior to the newly created Soil Conservation Service, Department of Agriculture, in April 1935, these studies were continued, until their termination June 30, 1940, as a cooperative project of the U. S. Geological Survey, the Soil Conservation Service, and the State Experiment Stations of Iowa and Missouri.

These studies were conducted for the purpose of investigating the relationships among rainfall, run-off, and soil losses on two watersheds one of which, the West Tarkio Creek watershed, was progressively subjected to the improved land-use and conservation practices of the Soil Conservation Service, and the other, the Tarkio River watershed, was permitted to continue under prevailing agricultural use and management.

Acknowledgment is made to H. C. Beckman, District Engineer, U. S. Geological Survey, Rolla, Missouri, who was responsible for the collection

of the hydrologic data, and to Wm. J. B. Boatman and P. C. Wiechman, Project Supervisors, West Tarkio Demonstration Project, Soil Conservation Service, whose project personnel assisted in this work. Acknowledgment is also made to the late Glenn W. Holmes, Associate Hydraulic Engineer, Hydrologic Division, Soil Conservation Service, for his technical supervision of the project.

II Physical Characteristics of Watersheds

Tarkio River and West Tarkio Creek drain rolling agricultural areas in Montgomery, Page, and Freemont counties in Iowa, and Atchison County in Missouri. West Tarkio Creek has a drainage area of 105 square miles above the stream-gaging station near Westboro, Missouri, and forms a part of the West Tarkio Creek Demonstration Project of the Soil Conservation Service, Tarkio River has a drainage area of 200 square miles above the stream-gaging station at Blanchard, Iowa, and lies outside of the demonstration area. These contiguous drainage basins are approximately 40 miles long and the distances between their main channels vary from 1 to 6 miles. The two streams flow nearly parallel to each other up to the point of their junction near Tarkio, Missouri, from whence Tarkio River continues on to join the Missouri River near Forest City, Missouri.

The Tarkio River watershed was selected as a check area because of its proximity and similarity in shape to the West Tarkio Creek watershed. Although the preliminary field reconnaissance showed the two watersheds also to be similar in such factors as soil types, slopes, degree of erosion, and land use, no accurate determination of these factors has been made to date for the Tarkio River watershed. Such a survey for the West Tarkio Creek Watershed was begun in 1934 and finished in 1935. The results of this survey are included as Appendix A in this report.

III. Soil Conservation Practices.

The work of the Division of Conservation Practices, Soil Conservation Service, in a demonstration project consists mainly in the development of farm plans embodying approved soil conservation practices for the various farms within the project. These farm plans are then made a part of cooperative agreements between the farmer and the Soil Conservation Service in which the farmer agrees to operate his farm in accordance with the approved farm plan in return for various assistance on the part of the Soil Conservation Service. In order that the resulting progressive increase in soil conserving practices in the West Tarkio Creek watershed could be coordinated with the hydrologic data, tabulations for each crop year were prepared showing the kind and extent of these practices as applied to the farms under agreement. Tabulations were also prepared for both the Tarkio River and the West Tarkio Creek watersheds in which soil conserving practices, as of the crop year 1938, were expressed as percentages of the total area of the farms within the watersheds. These tabulations, together with explanatory notes, are included as Appendix B in this report.

IV. Instrumentation

A. Precipitation Stations:

With the exception of Station No. 9, all recording precipitation stations were equipped with Fergusson weighing and recording rain and snow gages. At Station No. 9, a float-type recording rain-gage was found to give unsatisfactory results during freezing weather and was replaced on November 8, 1938 by a Fergusson weighing and recording gage. All recording gages were serviced by Soil Conservation Service or U. S. Geological Survey employees.

All standard gages used on the project were standard Weather Bureau type. With the exception of Station No. 28, these gages were read at 7:00 a.m. and 7:00 p.m. daily by cooperative observers. Station No. 28 was located at the Conservation Experiment Station of the Soil Conservation Service at Clarinda, Iowa, and was read at 8:00 a.m. and 5:00 p.m. by Soil Conservation Service employees.

A key map showing the location of all precipitation stations; a rain-gage history for each gage showing the location, gage type, observer, date of installation, and records available; tabulations of daily precipitation from all gages (June 1934-June 1940), and tabulations of hourly precipitation from all recording gages (August 1934-June 1940) are included in this report.

B. Stream-gaging Stations:

Measurements of run-off from the Tarkio River and West Tarkio Creek drainage basins were made at stations located as follows:

Tarkio River at Blanchard, Iowa: This station was located near a bridge on the county road between the SE ¼ Sec. 20 and the NE ¼ Sec. 29, T. 67 N., R. 38 W., one mile north of Blanchard, Page County; established March 13, 1935.

West Tarkio Creek near Westboro, Missouri: This station was located near a bridge on the county road in the NE ¼ Sec. 13, T. 66 N., R. 40 W., 3½ miles west of Westboro, Atchison County; established March 14, 1934.

Both stations were equipped with a low water timber control and a continuous automatic stage recorder. (See Plates I to X.) Stage discharge relations were determined by current meter stream flow measurements.

Because of the changes in the stage discharge relation resulting from alternate scouring and filling of the channel and the clogging of

intake pipes of recording gage wells by silt deposition, it was found necessary to make several stream-flow measurements per day during periods of storm flow and an average of one measurement per week during periods of low flow.

A key map showing the location of the two stations, tabulations showing the mean daily and instantaneous peak rates of flow (June 1934-June 1940), and hydrographs of stream flow for representative storms, are included in this report.

V. Suspended Matter in Streams

Measurements of the suspended matter in Tarkio River and West Tarkio Creek were begun April 1, 1934. These measurements were made at the stream-gaging stations, using a bottle sampler with which integrated samples were obtained at the quarter points of the stream cross section. The average concentration of suspended matter in the three samples was taken to represent the average silt content of the stream at the time the samples were taken. The departure of the concentration of any one sample from the average of the three was found to be usually less than ten percent.

Samples were collected frequently during floods, hourly or more often during rapidly changing stages, every two to three hours during moderate changes in stage, and once daily during periods of uniform flow. About 25 to 30 sets of samples were collected during an average flood of from two to three days' duration.

Tabulations showing the suspended matter in tons per day carried past the gaging stations of the two streams (June 1934-June 1940) are included in this report.

PLATE I. Tarkio River at Blanchard, Iowa. Looking upstream at control. Summer of 1934.

PLATE II. Tarkio River at Blanchard, Iowa. Looking upstream at control. June or July, 1938.

PLATE III. West Tarkio Creek, near Westboro, Missouri. Looking upstream at control. Summer of 1934.

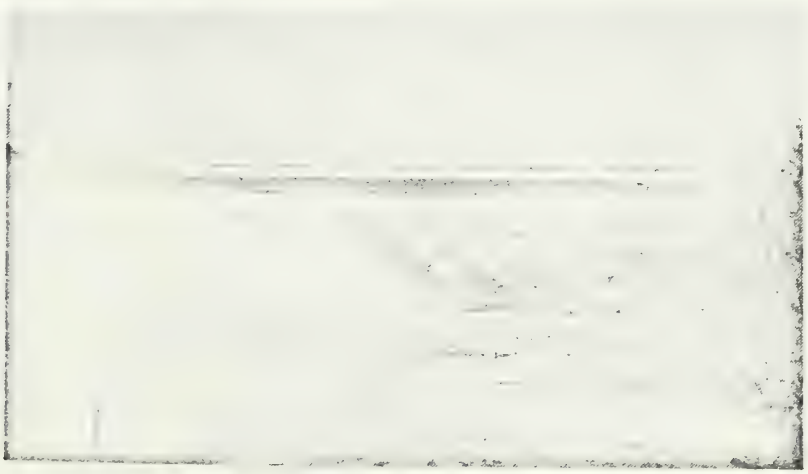


PLATE IV, West Tarkio Creek, near Westboro, Missouri. Looking upstream at control. July, 1938.

PLATE V. Tarkio River at Blanchard, Iowa. Looking upstream from right bank and showing water stage recorder shelter. June or July, 1938.

PLATE VI. West Tarkio Creek, near Westboro, Missouri. Taken from right bank and showing water stage recorder shelter. July, 1938.

PLATE VII. Tarkio River at Blanchard, Iowa. Looking upstream from bridge at gage. June or July, 1938.

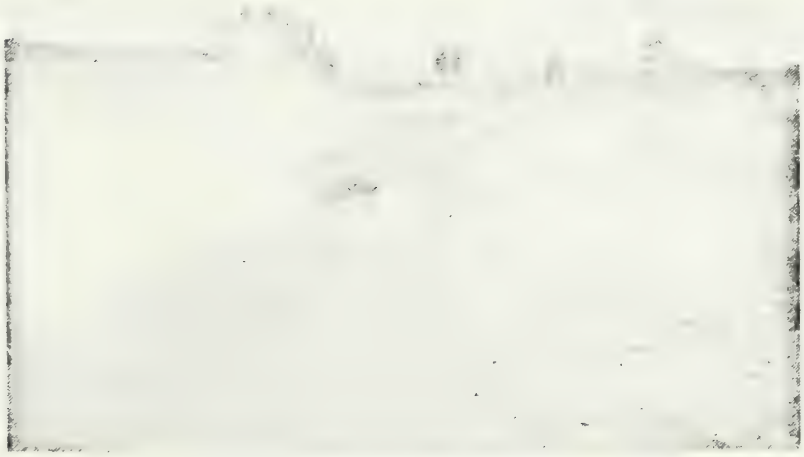


PLATE VIII. Tarkio River at Blanchard, Iowa. Looking downstream from bridge at gage. June or July, 1938.

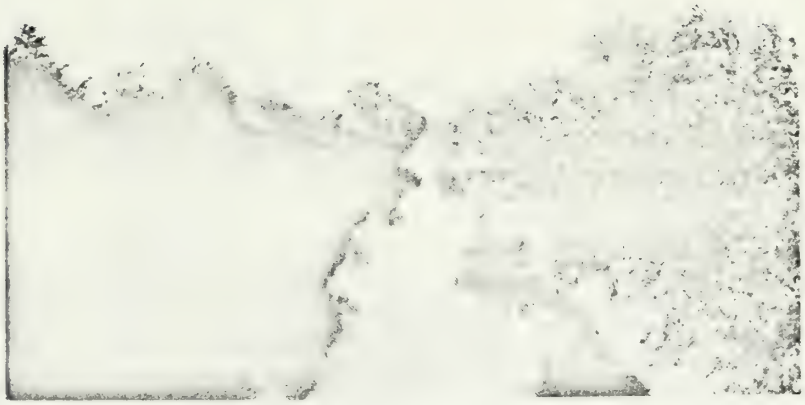


PLATE IX. West Tarkio Creek, near Westboro, Missouri. Looking upstream from bridge at gage. July, 1938.

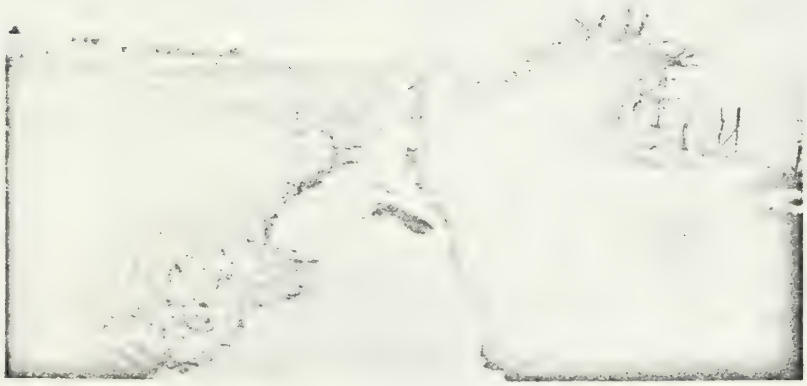
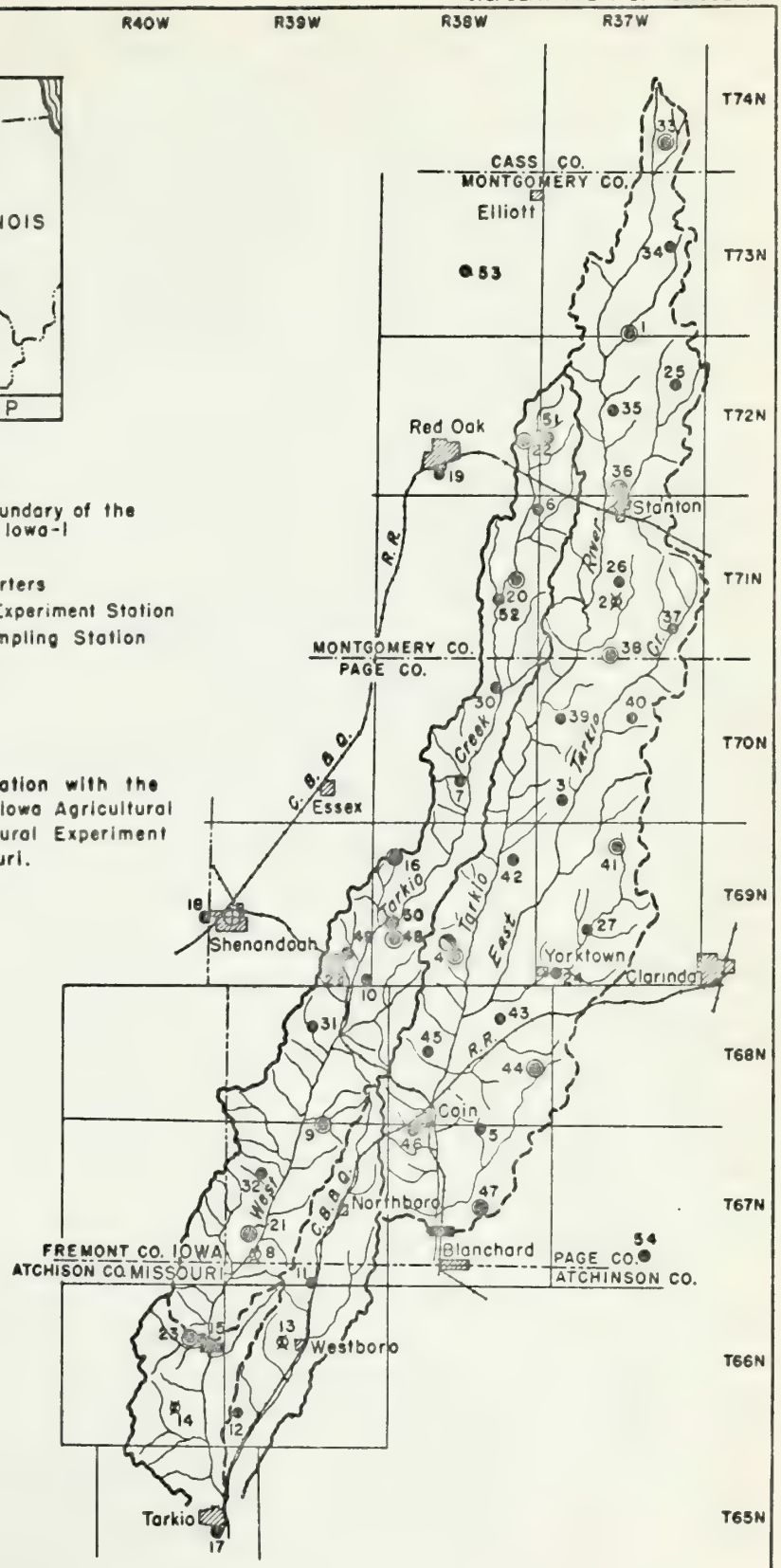


PLATE X. West Tarkio Creek, near Westboro, Missouri. Looking downstream from bridge at gage. July, 1938.

LEGEND

- S.C.S. Demonstration Area Boundary of the West Tarkio Creek Project, Iowa-1
- Watershed Boundary
- S.C.S. and U.S.G.S. Headquarters
- Soil and Water Conservation Experiment Station
- Stream Gaging and Silt Sampling Station
- Recording Rain Gage
- Standard Rain Gage
- Abandoned Rain Gage

Hydrologic studies in cooperation with the United States Geological Survey, the Iowa Agricultural Experiment Station, and the Agricultural Experiment Station of the University of Missouri.



TARKIO AND WEST TARKIO WATERSHEDS

4 2 0 4 8
Scale in Miles

Tabulations of Hydrologic Data

RAINGAGES-

LOCATION AND HISTORY

Project No. SCS-Ia-1 RAIN GAGES Shenandoah, Iowa

Station No. 1

Location: E. Tarkio Watershed, SW 1/4, SW 1/4, Sec. 34, T73N, R37W, Montgomery Co., Ia., 3 miles E of Red Oak, Ia. Gages 100 ft. SE of house.

Gage Type: Fergusson Weighing recording, 9" weekly chart.

Observations: Chart changed weekly by SCS or USGS employee, Shenandoah, Ia. Oscar Lofgren, Coop. Observ.

History: June 1934, Std. USWB read 7 AM and 7 PM. March 1937 station discontinued. May 21,1938, Sta. re-established, Std. USWB gage. Oct. 20, 1938, Std. USWB gage replaced by recording gage.

Station No. 2

Location: E. Tarkio Watershed, SE 1/4, SE 1/4, Sec. 21, T71N, R37W, Montgomery Co., Ia., 3 mi. S. of Stanton, Ia.

Gage Type: Standard USWB

Observations: E. N. Bergren, Coop. Observ. Readings taken 7 AM and 7 PM daily.

History: Sept. 1934, Station established. Dec. 1936 station discontinued. Records complete.

Station No. 3

Location: E. Tarkio Watershed, NE 1/4, Sec. 31, T70N, R37W, Page Co., Ia., 8 mi. E of Essex, Ia., gage 300 ft. N of house.

Gage Type: Standard, USWB.

Station No. 3 (cont'd)

Observations: John Conley, Coop. Observ. Readings taken 7 AM and 7 PM daily.

History: June 1934, sta. established. Records continuous to-date with exception of months January and February, 1937.

Station No. 4

Location: E Tarkio Watershed, SE 1/4, SE 1/4, Sec. 28, T69N, R38W, SCS Exp. Station, Page Co., Ia., 9 mi. W of Clarinda, Ia.

Gage Type: Fergusson, weighing and recording, 10" -12 hr. chart.

Observations: Gage serviced by SCS Exp. Sta. personnel.

History: Aug. 1, 1934, to Sept. 1, 1938, records are from the Exp. Sta. Plum Creek No. 5 gage. Sept. 1, 1938, to-date, records are from the Exp. Sta. Plum Cr. No. 8 gage, located approximately 100 ft. from Plum Cr. No. 5. Records complete.

Station No. 5

Location: E Tarkio Watershed, NE 1/4, NW 1/4, Sec. 3, T67N, R38W, Page Co., Ia., 2 mi. E of Coin, Ia., gage 200 ft. W of house.

Gage Type: Standard, USWB

Observations: I. E. Hovenden, Coop. Observ. Readings taken 7 AM and 7 PM daily.

History: June 1934, station established. Records continuous to-date.

Station No. 6

Location: W.Tarkio Watershed, NE 1/4, SE 1/4, Sec. 1, T71N, R38W, Montgomery Co., Ia., 3 mi. W. of Stanton, Ia. Gage 150 ft. S of house.

Gage Type: Standard, USWB

Observations: Edw. J. Johnson, Coop. Observ. Readings taken 7 AM and 7 PM daily.

History: July 1934, station established. Records continuous to-date.

Station No. 7

Location: W.Tarkio Watershed, SW 1/4, NW 1/4, Sec. 27, T70N, R38W, Page Co., Ia., 4 1/2 mi. E. of Essex, Ia. Gage 100 ft. NE of house.

Gage Type: Standard, USWB

Observations: C. H. Hillman, Coop. Observ. Readings taken 7 AM and 7 PM daily.

History: June, 1934, station established. Records continuous to-date. Prior to April 1, 1938, Milton Hillman was Coop. Observ.

Station No. 8

Location: W. Tarkio Watershed, SW 1/4, SW 1/4, Sec. 29, T67N, R39W, Page Co., Ia., 4 mi. SW of Northboro, Ia.

Gage Type: Standard, USWB

Observations: Claude Aspersen, Coop. Observ. Readings taken 7 AM and 7 PM daily.

Station No. 8 (cont'd)

History: June 1934, Station established. Nov. 19, 1936 station abandoned. Records complete for this period. Prior to June 1936 this station was designated as station No. 10.

Station No. 9

Location: W. Tarkio Watershed, NE 1/4, NW 1/4, Sec. 3, T67N, R39W, Page Co., Ia., 4 mi. W of Coin, Ia. Gage 150 ft. NW of house.

Gage type: Standard USWB. June 1934 to Aug. 27, 1934. Frieze, float type, recording gage, Aug. 27, 1934, to Nov. 8, 1938. Fergusson, weighing and recording - 9" weekly chart, Nov. 8, 1938 to-date.

Observations: Chart changed weekly by SCS or USGS employee. John Murphy, Coop. Observ.

History: June, 1934, station established. Aug. 27, 1934, Std. gage replaced by recorder. Records missing for Dec. 1934, Jan. 1935, Jan. to March and Dec. 1936, Jan. to April, 1937, Oct. 1937 to Jan. 1938.

Station No. 10

Location: W. Tarkio Watershed, SE 1/4, SE 1/4, Sec. 36, T69N, R39W, Page Co., Ia., 6 1/2 mi. SE of Shenandoah, Ia. Gage 150 ft. E of house.

Gage Type: Standard USWB

Observations: Eugene Jones (formerly Clarence Erickson) Coop. Observ. Readings taken 7 AM and 7 PM daily.

History: June, 1934, station established. Records complete except for Jan. Feb. and Mar. 1936. Clarence Erickson read gage from June 1934 to Dec. 1935. This station was designated as station No. 8 prior to Jan. 1936.

Station No. 11

Location: Middle Tarkio Cr. Watershed, SW 1/4, SW 1/4, Sec. 34, T67N, R39W. Atchison Co., Mo., 2 mi. N of Westboro, Mo. Gage 200 ft. NE of house.

Gage Type: Standard, USWB

Observations: John Flack, Coop. Observ. Readings taken 7 AM and 7 PM daily.

History: May 1935, station established. Records complete.

Station No. 12

Location: Middle Tarkio Cr. Watershed, NE 1/4, NW 1/4, Sec. 31, T66N, R39W. Atchison Co., Mo., 3 1/2 mi. N of Tarkio, Mo. Gage 200 ft. S of house.

Gage Type: Standard, USWB

Station No. 12 (cont'd)

Observations: J. G. Hurley, Coop. Observ. Readings taken 7 AM and 7 PM daily.

History: May 1935, station established. Records complete.

Station No. 13

Location: Middle Tarkio Cr. Watershed, NW 1/4, NW 1/4, Sec. 16, T66N, R39W, Atchison Co., Mo. 1/4 mi. W of Westboro, Mo.

Gage Type: Standard, USWB.

Observations: John Emery, Coop. Observ. Readings taken 7 AM and 7 PM daily.

History: May, 1935, station established May 1, 1937. Station discontinued. Records complete except Dec. 1935.

Station No. 14

Location: W. Tarkio Creek Watershed, SW 1/4, SW 1/4, Sec. 26, T66N, R40W, Atchison Co., Mo. 3 1/2 mi. NW of Tarkio, Missouri.

Gage Type: Standard, USWB

Observations: Mr. Jerome Prather and Cayroll Knizley, Coop. Observ. Readings taken 7 AM and 7 PM daily.

History: May, 1935, station established. May 1, 1937 station discontinued. Records complete except Nov. 1935 and Jan. 1937. May - Jan. 1935, gage read by Jerome Prather. Jan. 1935 - May 1937, gage read by Cayroll Knizley.

Station No. 15

Location: W. Tarkio Creek Watershed, SE 1/4, SE 1/4, Sec. 11, T66N, R40W, Atchison Co., Mo., 4 mi. W of Westboro, Mo. Gage 150 ft. W of house.

Gage Type: Standard, USWB

Observations: Henry Broermann, Coop. Observ. Readings 7 AM and 7 PM daily.

History: May 1935, station established. Records complete.

Station No. 16

Location: W. Tarkio Creek Watershed, NW 1/4 of NE 1/4, Sec. 7, T69N, R38W, Page Co., Ia., 3 1/2 mi. SE of Essex, Ia., 1/4 mi. S of house.

Gage Type: Standard, USWB (June 1935 to Oct. 26, 1937). Fergusson, weighing and recording (Oct. 26, 1937 to-date). 9" weekly chart.

History: June 1935, station established. Oct. 26, 1937, std. gage replaced by recorder. Records complete except for Sept. and Oct. 1937.

Station No. 17

Location: W. Tarkio Creek Watershed, below gaging station NW 1/4, NE 1/4, Sec. 23, T65N, R40W, Atchison, Co., Mo., 1/2 mi. S of Tarkio, Mo. Gage 100 ft. E of technical office.

Gage Type: Standard, USWB

Station No. 17 (cont'd)

Observations: Floyd Nimmo, Coop. Observ. Readings taken 7 AM and 7 PM daily.

History: April 1936, station established. Records complete except for Sept. 1937.

Station No. 18

Location: E. Nishnabotna River basin, NE 1/4, Sec. 24, T69N, R40W, Fremont Co., Iowa, outside western city limits of Shenandoah, Ia. Gage 40 ft. W of technical office.

Gage Type: Standard, USWB

Observations: Frank Langfitt, Coop. Observ. Readings taken 7 AM and 7 PM daily.

History: May 1936, station established. Records complete.

Station No. 19

Location: E. Nishnabotna River basin, NE 1/4, NW 1/4, Sec. 33, T72N, R38W, Montgomery Co., Iowa, 1/4 mi. S of Red Oak, Ia. Gage near technical office.

Gage Type: Standard, USWB

Observations: L. E. Kuester & G. E. Crippen, Coop. Observ. Readings taken 7 AM and 7 PM daily.

History: May 1936, station established. Records complete.

Station No. 20

Location: W. Tarkio Creek Watershed, NW 1/4, Sec. 24, T71N, R38W, Page Co., Iowa, 5 mi. SE of Red Oak, Iowa, gage 150 ft. N of house.

Gage type: Fergusson, weighing and recording, 9" weekly chart.

Observations: Chart changed weekly by SCS or USGS employee. L. G. Bergren, Coop. Observ.

History: Oct. 27, 1937, station established. Records complete.

Station No. 21

Location: W. Tarkio Cree, Watershed, NE 1/4, NE 1/4, Sec. 30, T67N, R39W, Page Co., Iowa. 3 1/2 mi. SW of Northboro, Iowa. Gage 150 ft. NW of house.

Gage Type: Fergusson, weighing and recording, 9" weekly chart.

Observations: Chart changed weekly by SCS or USGS employee. Chas. Hopkins cooperative observ.

History: Gage established Oct. 27, 1937. Records complete.

Station No. 22

Location: W. Tarkio Creek Watershed, SW 1/4, Sec. 24, T72N, R38W, Page County, Iowa, 2 mi. E of Red Oak, Iowa. Gage 200 ft. W of house.

Gage Type: Fergusson, weighing, recording, 9" weekly chart.

Station No. 22 (cont'd)

Observations: Chart changed weekly by SCS or USGS employee. Robert Oliver, Coop. Observ. changed the charts prior to March 15, 1938.

History: Oct. 28, 1937, station established. Records complete.

Station No. 23

Location: W. Tarkio Creek Watershed, SE 1/4, Sec. 11, T66N, R40W, Atchison Co., Mo., 3 1/2 mi. W of Westboro, Mo. Gage 300 ft. W of house.

Gage Type: Fergusson, weighing and recording, 9" weekly chart.

Observations: Chart changed weekly by SCS or USGS employee. Henry Broermann, Coop. Observ.

History: Oct. 27, 1937, station established. Records complete.

Station No. 24

Location: E. Tarkio Creek Watershed, NW 1/4, SE 1/4, Sec. 31, T69N, R37W, Page Co., Iowa, 1/2 mi. E. of Yorktown, Iowa, Gage 100 ft. SW of house.

Gage Type: Standard, USWB

Observations: Earl Annan, Coop. Observ. Readings taken 7 AM and 7 PM.

History: May 21, 1938, station established. Records complete.

Station 25

Location: E. Tarkio Creek Watershed, SW 1/4, SE 1/4, Sec. 11, T72N, R37W, Montgomery Co., Iowa, 5 mi. NE of Stanton, Iowa, gage 150 ft. SW of house.

Gage Type: Standard, USWB

Observations: Walter Honett, Coop. Observ. Readings taken 7 AM and 7 PM.daily.

History: May 21, 1938, station established. Records complete.

Station 26

Location: E. Tarkio Creek Watershed, NE 1/4, NE 1/4, Sec. 21, T71N, R37W, Montgomery Co., Ia., 2 mi. So. of Stanton, Ia., gage 60 ft. S of house.

Gage Type: Standard, USWB

Observations: Elmer Nimrod, Coop. Observ. Readings taken 7 AM and 7 PM.

History: May 21, 1938, station established. Records complete. This station replaces station No. 2, discontinued Dec. 1936

Station 27

Location: E. Tarkio Creek Watershed, SE 1/4, SE 1/4, Sec. 20, T69N, R37W, Page Co., Iowa, 4 mi. NW of Clarinda, Ia., gage 60 ft. NW of house.

Gage Type: Standard, USWB

Observations: LeRoy Miller, Coop. Observ. Readings taken 7 AM and 7 PM daily.

Station 27 (cont'd)

History: May 21, 1938, station established. Records complete.

Station 28

Location: Nodaway watershed, NE 1/4, Sec. 31, T67N, R36W, Page Co., Iowa., Lot 6, Fraser's addition, Clarinda, Ia., gage 150 feet SW of SCS office.

Gage Type: Standard, USWB

Observations: Observations made by SCS personnel. Readings taken 8 AM and 5 PM daily.

History: March 1938, station established by SCS Exp. Sta., Clarinda, Ia., Records complete from Jan. 1, 1939.

Station 29

Location: W. Tarkio Watershed, NW 1/4, NE 1/4, Sec. 35, T69N, R39W, Page Co., Iowa, 4 mi. E. of Shenandoah, Ia., gage near ridge of terraced field about 300 ft. S of highway #[illegible] and about 500 ft. SW of Wabash railroad.

Gage Type: Friez float type recording gage, 12" weekly chart.

Observations: Chart changed weekly by SCS or USGS employee. Elsie Nordstrom, Coop. Observ.

History: May 12, 1939, station established. Records complete except for Nov. and Dec. 1939, and Jan. and Feb. 1940.

Station No. 30

Location: W. Tarkio Creek Watershed, NW 1/4, Sec. 11, T70N, R38W, Page Co., Iowa. 9 mi. S of Red Oak, Iowa. Gage in garden 300 ft. E of house.

Gage Type: Standard, USWB

Observations: Paul Wenstrand, Coop. Observ. Readings taken 7 AM and 7 PM daily.

History: Sept. 22, 1938, station established. Records complete.

Station No. 31

Location: W. Tarkio Creek Watershed, SW 1/4, Sec. 15, T68N, R39W, Page Co., Iowa. 5 mi. SE of Shenandoah, Iowa. Gage in garden 300 ft. N of house.

Gage Type: Standard, USWB

Observations: Sara Brayman, Coop. Observ. Readings taken 7 AM and 7 PM daily.

History: Sept. 26, 1938, station established. Records complete.

Station No. 32

Location: W. Tarkio Creek Watershed, SW 1/4, Sec. 8, T67N, R39W, Page Co., Near Northboro, Iowa. Gage in garden 100 ft. S of house.

Gage Type: Standard, USWB

Observations: Gerald E. Scotton, Coop. Observ. Readings taken 7 AM and 7 PM daily.

Station No. 32 (cont'd)

History: Sept. 26, 1938, station established. Records complete.

Station No. 33

Location: E. Tarkio Creek Watershed, SE 1/4 Sec. 26, T74N, R37W, Cass County, 5 mi. SE of Griswold, Iowa. Gage in garden 300 ft. SE of house.

Gage Type: Fergusson, weighing and recording, 9" weekly chart.

Observations: Chart changed weekly by SCS or USGS employee. C. P. Falk, Coop. Observ.

History: Oct. 20, 1938, station established. Records complete.

Station No. 34

Location: E. Tarkio Creek Watershed, SE 1/4, Sec. 14, T73N, R37W, Montgomery Co. 5 mi. SE of Elliott, Iowa. Gage in garden 200 ft. S of house.

Gage Type: Standard, USWB

Observations: M. R. Thompson, Coop. Observ. Readings taken 7 AM and 7 PM daily.

History: Sept. 21, 1938, station established. Records complete.

Station No. 35

Location: E. Tarkio Creek Watershed, SE 1/4, Sec. 16, T72N, R37W, Montgomery Co., 4 mi. N of Stanton. Gage in garden 150 ft. NW of house.

Gage Type: Standard, USWB

Observations: Glendon E. Johnson, Coop. Observ. Readings taken 7 AM and 7 PM daily.

History: Sept. 21, 1938, station established. Records complete.

Station No. 36

Location: E. Tarkio Creek Watershed, SE 1/4, Sec. 33, T72N, R37W, Montgomery Co., near Stanton, Ia. Gage in yard 200 ft. E of house.

Gage Type: Fergusson, weighing and recording, 9" weekly chart.

History: Oct. 19, 1938, station established. Records complete.

Station No. 37

Location: E. Tarkio Creek Watershed, SE 1/4, Sec. 26, T71N, R37W, Montgomery Co., 4 mi. W of Villisca. Gage in garden 100 ft. SE of house.

Gage Type: Standard, USWB

Observations: Leslie C. Baird, Coop. Observ. Readings taken 7 AM and 7 PM daily.

History: Sept. 21, 1938, station established. Records complete.
Dec. 14, 1939, gage moved 1/4 mi. E and 1/4 mi. N.
R. H. McKee, Coop. Observ.

Station No. 38

Location: E. Tarkio Creek Watershed, SW 1/4, SE 1/4, Sec. 33, T71N, R37W, near Villisca, Ia. Gage 100 ft. W of house.

Gage Type: Fergusson, weighing and recording, 9" weekly chart.

Observations: Chart changed weekly by SCS or USGW employee. Eric C. Hanson, Coop. Observ.

History: Oct. 19, 1938, station established. Records complete.

Station No. 39

Location: E. Tarkio Creek Watershed, NE 1/4, Sec. 18, T78N, R37W, Page County, 7 mi. W of Hepburn, Ia. Gage in chicken yard 150 ft. S of house.

Gage Type: Standard, USWB

Observations: Harry Anderson, Coop. Observ. Readings taken 7 AM and 7 PM daily.

History: Sept. 26, 1938, station established. Records complete.

Station No. 40

Location: E. Tarkio Creek Watershed, NW 1/4, Sec. 15, T70N, R37W, Page County, 6 mi. SW of Villisca, Ia. Gage in garden 150 ft. S of house.

Gage Type: Standard, USWB

Observations: Gilbert Larson, Coop. Observ. Readings taken 7 AM and 7 PM daily.

History: Sept. 22, 1938, station established. Records complete.

Station No. 41

Location: E. Tarkio Creek Watershed, SE 1/4, Sec. 4, T69N, R37W, Page County, near Clarinda, Ia. Gage in garden 100 ft. NE of house.

Gage Type: Fergusson, weighing and recording, 9" weekly chart.

Observations: Chart changed weekly by SCS or USGS employee. George Sunderman, Coop. Observ.

History: Oct. 19, 1938, station established. Records complete.

Station No. 42

Location: E. Tarkio Creek Watershed, NW 1/4, Sec. 12, T69N, R38W, Page County, 7 mi. E of Essex, Ia. Gage in garden 200 ft. S of house.

Gage Type: Standard, USWB

Observations: Bertil Engstrom, Coop. Observ. Readings taken 7 AM and 7 PM daily.

History: Sept. 22, 1938, station established. Records complete.

Station No. 43

Location: E. Tarkio Creek Watershed, NW 1/4, Sec. 14, T68N, R38W, Page County, 2 mi. SW of Yorktown, Ia. Gage in garden 150 ft. E of house.

Gage Type: Standard, USWB

Observations: J. H. Huseman, Coop. Observ. Readings taken 7 AM and 7 PM daily.

Station No. 43 (cont'd)

History: Sept. 22, 1938, station established. Records complete.

Station No. 44

Location: E. Tarkio Creek Watershed, SE 1/4, SW 1/4, Sec. 24, T68N, R38W, near Clarinda, Iowa. Gage in garden 150 ft. W of house.

Gage Type: Fergusson, weighing and recording, 9" weekly chart.

Observations: Chart changed weekly by SCS or USGS employee. S. H. Kenagy, Coop. Observ.

History: Oct. 19, 1938, station established. Records complete.

Station No. 45

Location: E. Tarkio Creek Watershed, NW 1/4, Sec. 20, T68N, R38W, Page County, 2 mi. N of Coin, Ia. Gage in garden 200 ft. SE of house.

Gage Type: Standard, USWB

Observations: R. A. Flowers, Coop. Observ. Readings taken 7 AM and 7 PM daily.

History: Sept. 28, 1938, station established. Records complete.

Station No. 46

Location: E. Tarkio Creek Watershed, NE 1/4, Sec. 6, T67N, R38W, Page County, 1/2 mi. SW of Coin, Ia. Gage in yard 100 ft. W of house.

Gage Type: Standard, USWB

Observations: Owen Hixson, Coop. Observ. Readings taken 7 AM and 7 PM daily.

History: Sept. 28, 1938, station established. Records complete.

Station No. 47

Location: E. Tarkio Creek Watershed, NW 1/4, Sec. 22, T67N, R38W, 2 mi. NE of Blanchard, Iowa. Gage 100 ft. W of house.

Gage Type: Fergusson, weighing and recording, 9" weekly chart.

Observations: Chart changed weekly by SCS or USGS employee. C. D. Johnson, Coop. Observ.

History: Oct. 19, 1938, station established. Records complete.

Station No. 48

Location: W. Tarkio Watershed, NE 1/4, Sec. 30, T69N, R38W, Page County, Ia. 6 mi. E of Shenandoah, Ia. Gage at North edge of farm driveway, 60 ft. from N and S road on E side of farm.

Gage Type: Fergusson, weighing and recording, 9" weekly chart.

Station No. 48 (cont'd)

Observations: Chart changed weekly by SCS or USGS employee. John Snyder, Coop. Observ.

History: May 21, 1939, station established, Records complete.

Station No. 49

Location: W. Tarkio Watershed, SE 1/4, Sec. 26, T69N, R39W, Page County, Ia. 4 mi. E of Shenandoah, Iowa. Gage 100 ft. NE of house.

Gage Type: Standard, USWB

Observations: Guy Drake, Coop. Observ. Readings taken 7 AM and 7 PM daily.

History: May 10, 1939, station established. Records complete.

Station No. 50

Location: W. Tarkio Watershed, SE 1/4, Sec. 19, T69N, R39W, Page County, Iowa. 6 mi. E of Shenandoah, Iowa. Gage 150 ft. SE of house.

Gage Type: Standard, USWB

Observations: H. W. Miller, Coop. Observ. Readings taken 7 AM and 7 PM daily.

History: May 10, 1939, station established. Records complete.

Station No.51

Location: W. Tarkio Creek Watershed, NW 1/4, Sec. 30, T72N, R37W, Montgomery Co., Iowa. 3 mi. E of Red Oak, Iowa. Gage 200 ft. S of house.

Gage Type: Standard, USWB

Observations: Elmer Linn, Coop. Observ. Readings taken 7 AM and 7 PM daily.

History: May 10, 1939, Station established. Records complete.

Station No. 52

Location: W. Tarkio Creek Watershed, SE 1/4, Sec. 23, T71N, R38W, Montgomery County, 6 mi. SE of Red Oak, Iowa. Gage 100 ft. N of house.

Gage Type: Standard, USWB

Observations: Axel Swanson, Coop. Observ. Readings taken 7 AM and 7 PM daily.

History: May 10, 1939, station established. Records complete.

Station No. 53

Location: E. Nishnabotna River Watershed, NW 1/4, SW 1/4, Sec. 22 T73N, R38W, Montgomery Co., Iowa. 7 mi. N of Red Oak, Iowa. Gage 60 ft. S of Harry B. Turner's residence.

Gage Type: Standard, USWB

Observations: Harry B. Turner, Coop. Observ. Readings taken 7 AM and 7 PM daily.

History: July 14, 1939, station established. Records complete except for Dec. 1939 and Jan. 1940.

Station No. 54

Location: W. Nodaway River watershed, SE 1/4, SW 1/4, Sec. 27, Twp. 67, Range 37, Page County, Iowa, 2 mi. W of Braddyville, Iowa. Gage 200 ft. SW of George Yaple's residence.

Gage Type: Standard, USWB

Observations: George Yaple, Coop. Observ. Readings taken 7 AM and 7 PM daily.

History: July 18, 1939, station established. Records complete.

Station No. 55

Location: East Fork of Platte River Basin, NW 1/4 of NE 1/4, Sec. 26, T68N, R34W, Taylor County, Iowa, at C.C.C. Camp, located midway between S.C.S. office, technical service quarters, and mess hall.

Gage Type: Standard, USWB.

Observations: Con Epperson, an enrollee at S.C.S., Ia.-28, observer. Gage read at 7 AM and 7 PM daily.

History: Dec. 10, 1939, station established. Records complete.

Tabulations of Hydrologic Data

DAILY PRECIPITATION

FROM ALL STATIONS

1934 to 1940

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by W. S.
Checked by W.M.M.
Final check by E.S.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-I

Stations listed in each Watershed by location
North to South

SHEET 1 OF 7 SHEETS

MONTH OF June 14-30 & July 1 to 34

June, 1934

STATION / DATE	NO. 1 7a.m.	NO. 1 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO. 6 7a.m.	NO. 6 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.	NO. 8 7a.m.	NO. 8 7p.m.
	Tarkio River Watershed										West Tarkio Creek							
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14	.61		.44		.37				.65		.54		.52				.31	
15																		
16																		
17	.10		.23		.34				.12		.33		.60		.28		.06	
18																		
19																		
20					.03												.02	
21																		
22	.40		1.12		.89				1.25		1.03		.71		.98		.66	
23																		
24					.23										.03		.17	
25												.03						
26																		
27																		
28																		
29																		
30			.66		.10							.19			.10		.06	.04
31																		
TOTAL	1.11		2.45		1.96				2.02		1.90	.22	1.33		1.44		1.28	.04

July 1934

STATION / DATE	NO. 1 7a.m.	NO. 1 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO. 6 7a.m.	NO. 6 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.	NO. 8 7a.m.	NO. 8 7p.m.
	Tarkio River Watershed										West Tarkio Creek							
1																		
2																		
3																		
4																		
5		.25		.57		.69			.46			.53		.50		.65		.47
6															.04		.01	
7																		
8																		
9	.30		.23		.32				.51		.25	.02	.32		.33		.27	
10					.30										.16		.47	
11																		
12																		
13																		.11
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25					.31										.24		.04	
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	.80	.25	.23	.57	.93	.69			.97		.25	.55	.32	.50	.77	.65	.79	.58

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

RECORD OF DAILY PRECIPITATION

Copied by W. S.
Checked by W.M.M.
Final check by E.S.
Stations listed in each watershed by location North and South

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1
Tarkio River Watershed
August, 1934

MONTH OF August & September 1934

SHEET 2 OF 7 SHEETS

DATE \ STATION	NO. 1 7a.m.	NO. 1 7p.m.	NO. 2 7a.m.	NO. 2 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4* 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4									.13									
5																		
6																		
7																		
8																		
9																		
10																		
11	.10				.06		Start here		.30									
12																		
13							.02											
14																		
15		.30			.26		.15	.05		.27								
16																		
17																		
18																		
19							.09											
20					.09		.02			.12								
21																		
22																		
23		.20																
24							.06											
25																		
26																		
27																		
28																		
29																		
30	1.00				.04		.10		.10									
31					1.28	.73	1.10		.37									
TOTAL	1.10	.50			1.73	.73	1.54	.05	.90	.39								

September, 1934

DATE \ STATION	NO. 1 7a.m.	NO. 1 7p.m.	NO. 2 7a.m.	NO. 2 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1			Established				.26											
2			on this date															
3		1.15	1.02		1.04		1.06		.03									
4																		
5																		
6																		
7																		
8																		
9						.25												
10	.10		.24				.33		.38									
11																		
12																		
13																		
14								.52										
15	.20		.17			.30	.16		.31									
16																		
17																		
18																		
19																		
20		.35		.16		.28		.05										
21	.15		.18				.20		.32									
22																		
23																		
24																		
25		1.10		.52		.15		.44										
26	1.65		1.54			1.60	1.31		1.16									
27																		
28		.15		.28		.40		.27										
29									.31									
30																		
31																		
TOTAL	2.10	2.75	3.15	.96	1.04	3.43	3.32	1.38	3.31									

*Recording gage.

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by W.S.
Checked by W.M.M.
Final check by E.S.
Stations listed in each watershed by location North to South

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Projects LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 West Tarkio Creek Watershed SHEET 3 OF 7 SHEETS

MONTH OF August & September 19 34 August, 1934

STATION / DATE	NO. 6 7a.m.	NO. 6 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.	NO. 8 7a.m.	NO. 8 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1							Recording											
2							gage installed											
3							on Aug. 27											
4			.02		.20		.20		.17									
5																		
6																		
7																		
8																		
9																		
10																		
11	.23		.05				.05		.08									
12						.02												
13							.15		.09									
14																		
15	.26		.11	.15		.22	.19	.03	.20	.04								
16																		
17				.07														
18																		
19																		
20		.35	.06	.03	.10		.08			.02								
21																		
22																		
23																		
24									.11									
25																		
26																		
27										.08								
28																		
29																		
30		.44	.03	.09	.07													
31			1.24		1.55		.45		.52									
TOTAL	.59	.79	1.51	.33	1.92	.24	1.12	.03	1.17	.14								

September, 1934

STATION / DATE	NO. 6 7a.m.	NO. 6 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.	NO. 8 7a.m.	NO. 8 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1			.27		.37		.42		.45									
2		1.25																
3			1.05		.75		.68		.86									
4																		
5																		
6																		
7																		
8																		
9						.30		.01										
10			.30				.40		.52									
11																		
12																		
13							.12											
14				.78	.90													
15		.35	.17						.69									
16						No record												
17						for Sept. 14												
18						to Sept. 30												
19																		
20	.33			.04														
21			.19		.19				.30									
22																		
23																		
24																		
25				.32		1.58				.01								
26	.60	.35	1.30						1.56									
27	1.25																	
28				.33	.27					.29								
29																		
30																		
31																		
TOTAL	2.18	1.95	3.28	1.47	2.48	1.88	1.62	.01	4.38	.30								

*Recording gage —

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by W.S.
Checked by W.M.M.
Final check by E.S.
Stations listed in each Watershed by location North to South

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO Ia-1 SHEET 4

MONTH OF October & November 1934 OF 7 SHEETS

Tarkio River Watershed
October, 1934

STATION / DATE	NO. 1 7a.m.	NO. 1 7p.m.	NO. 2 7a.m.	NO. 2 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16	.10		.14		.15		.10		.08									
17																		
18		.20		.27	.45		.10	.48		.36								
19	.70		.73	.15	1.77		1.06	.58	1.40	.39								
20	.30		.35		.40		.33		.38									
21																		
22																		
23			.12				.05		.15									
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	1.10	.20	1.34	.42	2.77		1.64	1.06	2.01	.75								

*Recording gage

November, 1934

STATION / DATE	NO. 1 7a.m.	NO. 1 7p.m.	NO. 2 7a.m.	NO. 2 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3	.90		.60	.42		.99	.58	.52	.82	.36								
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17		.30		.22	.50			.38										
18			.24				.08		.37									
19						.56												
20	.30		.40	.04			.53		.61	.02								
21				.12		.16		.24										
22			.30				.25		.36									
23																		
24																		
25		.01		.60	.88			.48		.47								
26	.10		.20				.14		.22									
27						.19		.10										
28			.14				.04		.20									
29																		
30																		
31																		
TOTAL	1.30	.31	1.88	1.38	1.38	1.90	1.62	1.72	3.08	.85								

*Recording gage

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
WATERSHED STUDIES

Copied by W.S.
Checked by W.M.M.
Final check by E.S.
Stations listed in each Watershed by location North to South

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

West Tarkio Creek Watershed

PROJECT NO. Ia-1

MONTH OF October & November 1934

October, 1934

SHEET 5 OF 7 SHEETS

STATION / DATE	NO. 6 7a.m.	NO. 6 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 9* 7a.m.	NO. 9* 7p.m.	NO. 8 7a.m.	NO. 8 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1							No record											
2							for Oct. 1											
3							to Oct. 14											
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16			.11				.03		.03									
17																		
18	.33		.07	.37	.40		.11	.45										
19	1.51	.30	1.04	.57	2.40		1.43	.46	2.40	.51								
20			.24				.30		.37									
21																		
22																		
23			.06		.13		.21		.26									
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	1.84	.30	1.52	.94	2.93		2.08	.91	3.06	.51								

*Recording gage

November, 1934

STATION / DATE	NO. 6 7a.m.	NO. 6 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 9* 7a.m.	NO. 9* 7p.m.	NO. 8 7a.m.	NO. 8 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3		1.14	.52	.30	1.10		.82	.20	.97	.08								
4																		
5																		
6							No record											
7							for Nov. 4											
8							to Nov. 12											
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16		.31																
17	.35			.34		.54		.44		.40								
18			.13				.06		.33									
19																		
20			.60	.02	.57		.46		.49									
21	.72			.09	.42			.24		.12								
22			.14				.09		.42									
23							No record											
24							to Jan. 27,											
25	.52			.57	.67		1935			.44								
26			.13						.23									
27	.12					.15												
28			.08						.41									
29																		
30																		
31						.05												
TOTAL	1.71	1.45	1.60	1.32	2.76	.74	1.43	.88	2.85	1.04								

* Recording gage

Form SCS-361

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by: W.S.
Checked by: W.M.M.
Final check by: E.S.

RECORD OF DAILY PRECIPITATION

NAME: West Tarkio Cr. Demonstration Project LOCATION: Shenandoah, Iowa

PROJECT NO. Ia-1 SHEET 6 OF 7 SHEETS

MONTH OF December 1934

Tarkio River Watershed
December, 1934

STATION / DATE	NO. 1	NO. 1	NO. 2	NO. 2	NO. 3	NO. 3	NO. 4	NO. 4	NO. 8	NO. 5	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3							No record											
4							for this											
5							month											
6	.10			.30														
7																		
8						.12												
9									.04									
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	.10			.30		.12			.04									

*Recording gage

STATION / DATE	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
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22																		
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24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL																		

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by: W.S.
Checked by: W.M.M.
Final check by: E.S.
Stations listed in each watershed by location North to South

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1

MONTH OF December 1934

West Tarkio Creek Watershed
December, 1934

SHEET 7 OF 7 SHEETS

STATION / DATE	NO. 6 7a.m.	NO. 6 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 9* 7a.m.	NO. 9 7p.m.	NO. 8 7a.m.	NO. 8 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3	.35		.02		.04													
4																		
5							No record											
6							for this		.04									
7			.03		.05		month											
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17									.07									
18	.15				.06				.02									
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	.50		.05		.15				.13									

*Recording gage

STATION / DATE	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
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14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL																		

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by: W.S.
Checked by: W.M.M.
Final check by: E.S.
Stations listed in each watershed by location north to south

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 Tarkio River Watershed SHEET 1 OF 16 SHEETS

MONTH OF January & February 1935

January, 1935

STATION / DATE	NO. 1 7a.m.	NO. 1 7p.m.	NO. 2 7a.m.	NO. 2 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4* 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8							.01		.02									
9																		
10																		
11																		
12				.15			.08		.03									
13								.10										
14																		
15																		
16	.10							.10										
17																		
18						.80												
19			.68				.53		.60									
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	.10		.68	.15		.80	.62	.20	.65									

*Recording gage

February, 1935

STATION / DATE	NO. 1 7a.m.	NO. 1 7p.m.	NO. 2 7a.m.	NO. 2 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8							.17		.40									
9																		
10																		
11																		
12																		
13	.05							.10										
14	.15					.15	.12	.02										
15	.10		.17				.03		.31									
16																		
17																		
18																		
19																		
20																		
21																		
22			.30															
23																		
24			.50		.51			.18										
25	.40						.04											
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	.70		.97		.51	.15	.36	.30	.71									

*Recording gage

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by: W.S.
Checked by: W.M.M.
Final check by: E.S.
Stations listed in each watershed by location north to south

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO Ia-1 — West Tarkio Creek Watershed — SHEET 2 OF 16 SHEETS

MONTH OF January & Feb. 19 35 — January, 1935

DATE \ STATION	NO. 6 7a.m.	NO. 6 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 9* 7a.m.	NO. 9 7p.m.	NO. 8 7a.m.	NO. 8 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5																		
6																		
7				.03														
8			.03	.01	.02													
9																		
10																		
11																		
12	.04		.08	.09		.15				.26								
13																		
14																		
15																		
16		.03		.06		.05				.04								
17		.25																
18						.52												
19		.70	.59						.45									
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	.04	.98	.70	.19	.02	.72			.45	.30								

*Recording gage

February, 1935

DATE \ STATION	NO. 6 7a.m.	NO. 6 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.	NO. 8 7a.m.	NO. 8 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5																		
6																		
7	.16			.13														
8																		
9								.10										
10																		
11																		
12																		
13	.28			.11		.15		.07	.27									
14			.15	.03	.10		.18	.03										
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24	.25			.10		.26												
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	.69		.15	.37	.10	.41	.18	.20	.27									

*Recording gages

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

RECORD OF DAILY PRECIPITATION

Copied by: W.S.
Checked by: W.M.M.
Final check by: E.S.
Stations listed in each watershed by location North to South

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1
MONTH OF March & April 19 35

Tarkio River Watershed
March, 1935

SHEET 3 OF 16 SHEETS

STATION / DATE	NO. 1 7a.m.	NO. 1 7p.m.	NO. 2 7a.m.	NO. 2 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4* 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4	.06		.14				.16		.12									
5																		
6			.60					.17	.25									
7	.14																	
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16			.45															
17								.11										
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27							.05											
28																		
29																		
30							.02											
31																		
TOTAL	.20		1.19				.23	.28	.37									

*Recording gage

April, 1935

STATION / DATE	NO. 1 7a.m.	NO. 1 7p.m.	NO. 2 7a.m.	NO. 2 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5																		
6																		
7	.78		.65		.50				.47									
8							.36			.12								
9		.07		.03		.06		.13										
10		.11	.04	.12		.07		.06										
11		.10				.05			.17									
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24							.01											
25																		
26																		
27																		
28			.08		.08			.09		.19								
29							.04											
30																		
31																		
TOTAL	.78	.28	.77	.20	.58	.18	.41	.28	.64	.31								

*Recording gage

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by: W.S.
Checked by: W.M.M.
Final check by: E.S.
Stations listed in each watershed by location north to south

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 West Tarkio Creek Watershed SHEET 4 OF 16 SHEETS

MONTH OF March & April 1935 March, 1935

STATION / DATE	NO. 6 7a.m.	NO. 6 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.	NO. 8 7a.m.	NO. 8 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3		.14								.18								
4			.13				.10											
5																		
6	.30		.03		.24					.62								
7								.03										
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17	.03		.02			.10				.01								
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25							.03		.10									
26																		
27									.07									
28																		
29																		
30									.03									
31																		
TOTAL	.33	.14	.23		.24	.13	.12	.03	.17	.61								

*Recording gage

April, 1935

STATION / DATE	NO. 6 7a.m.	NO. 6 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.	NO. 8 7a.m.	NO. 8 7p.m.	NO:	NO:	NO:	NO:	NO:	NO:	NO:	NO:
1																		
2																		
3																		
4																		
5																		
6	.60							.05										
7			.38		.43		.33		.64									
8	.08																	
9	.09			.09		.13		.13		.13								
10			.05	.01		.15	.07		.03	.07								
11			.03				.02			.01								
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23	.04																	
24	.04			.01	.10		.03	.04		.04								
25									.07									
26																		
27																		
28	.08		.03	.03	.06		.04	.04		.14								
29		.25																
30																		
31																		
TOTAL	.91	.25	.54	.13	.79	.27	.19	.27	.74	.45								

*Recording gage

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by: W.S.
Checked by: W.M.M.
Final check by: E.S.
Stations listed in each watershed by location North to South

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. D-1 SHEET 5
MONTH OF May and June 1935 Tarkio River Watershed May, 1935 OF 16 SHEETS

STATION / DATE	NO. 1 7a.m.	NO. 1 7p.m.	NO. 2 7a.m.	NO. 2 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1	.35		.25		.30		.35		.26									
2		.06								.02								
3									.07									
4																		
5																		
6																		
7								.06										
8				.10		.05		.02										
9																		
10																		
11		.11		.26	.19	.45		.10										
12	.19	.13	.32			.51	.44		.59									
13		.42	.28	.36	.10		.41	.12		.39								
14	.12		.12		.23		.35		.18									
15		.43		.42		.43		.43										
16	.03								.43									
17						.08												
18		.15	.04	.14	.31			.23										
19	.71	.09	.85	.03			.72	.04	1.01									
20		.25	.53	.14	.75		.80	.30	.73									
21									.37									
22		.68				.22		.53										
23	.11	.17	.10	.14	.05		.17		.45									
24																		
25																		
26																		
27			.04		.04		.12		.13									
28		1.25	.43		1.27		1.48		1.27									
29		.20		.26		.30		.25										
30	.10		.34		.60				.13									
31		.44		.32		.40		1.26	1.37									
TOTAL	1.52	4.33	3.15	2.27	4.34	2.44	4.74	3.34	7.19	.41								

*Recording gage

June, 1935

STATION / DATE	NO. 1 7a.m.	NO. 1 7p.m.	NO. 2 7a.m.	NO. 2 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1		.89		1.03		1.20		.90										
2	.01	.14		.40		.04		.06	.95									
3		.07		.15		.18		.40										
4				.03		.07	.03		.11									
5						.13	.61		.03									
6				.09					.41	.05								
7																		
8																		
9																		
10			.22		.16		.29		.18									
11																		
12																		
13																		
14																		
15																		
16																		
17		.65		.36		.76		.30		.45								
18	.28	.08	1.20	.10	1.09	.03	1.44		2.46	.05								
19																		
20		.30	.29			.23				.25								
21							.21											
22							.81											
23																		
24			.48			.41				.43								
25	.08		.08		.18		.15											
26	.66		1.18		.76		.59		.27									
27																		
28																		
29																		
30		.30	.28			.44				.52								
31																		
TOTAL	1.63	2.43	3.83	2.21	2.19	3.54	4.23	2.16	5.01	1.75								

*Recording gage

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by: W.S.
Checked by: W.M.M.
Final check by: E.S.
Stations listed in each watershed by location North to South

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration ~~Project~~ LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1
MONTH OF May and June 19 35

West Tarkio Creek Watershed
May, 1935

SHEET 6 OF 16 SHEETS

STATION	NO. 6	NO. 6	NO. 7	NO. 7	NO. 16	NO. 16	NO. 10	NO. 10	NO. 9	NO. 9	NO. 8	NO. 8	NO.	NO.	NO.	NO.	NO.	NO.
DATE	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.						
1			.26				.38				.16							
2																		
3																		
4																		
5																		
6																		
7				.04						.06		.06						
8				.04			.11											
9											.01							
10																		
11	.08	.14		.14			.15			.11		.20						
12			.38				.64		.20		.72							
13	.34		.35	.60			.42		.31	.10	.37							
14	.16	.04	.15	.01			.26		.09		.14							
15	.45			.39				.38		.35								
16			.01						.02		.41							
17																		
18	.22		.09	.14				.89	.13	.11	.20	.12						
19	.80		.67	.04			.35		.66	.04	.73	.04						
20	.42	.10	.53	.28			.76		1.04	.38	.34	.46						
21																		
22	.47			.08			.20			.13		.14						
23	.18			.03							.02							
24																		
25																		
26										.13								
27			.02				.16			1.54	.20							
28	.46		1.36	.02			1.73				.38							
29	.26			.25				.19	.12			.15						
30			.07							.02								
31	.50			.20					1.11	.05		.91						
TOTAL	4.34	.28	3.89	2.96			5.16	1.46	3.68	3.02	4.23	2.08						

*Recording gage

June, 1935

STATION	NO. 6	NO. 6	NO. 7	NO. 7	NO. 16	NO. 16	NO. 10	NO. 10	NO. 9	NO. 9	NO. 8	NO. 8	NO.	NO.	NO.	NO.	NO.	NO.
DATE	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.						
1	.46	.40		1.10		#		1.12		1.02		1.27						
2	.31			.34				.28	.04	.07	.03							
3	.10			.17				.16		.03								
4				.05				.08		.06		.02						
5								1.11		.25								
6			.11	.03	.11			.28	.27	.03	.50	.02						
7					.02					.03								
8								.18										
9		.31	.26		.07				.17		.03							
10																		
11																		
12					.02					.02		.15						
13																		
14																		
15										.08								
16	1.96			1.10			1.03			.50		.68						
17			1.15		2.25			1.77	2.53		2.07							
18			.09															
19	.33			.23	.23		.24			.24	.27							
20			.02		.05													
21																		
22																		
23	.70			.40			.42		.47	.03	.23							
24	.12		.13		.71		.20		.09	.01								
25		.72	.38		.41		.77		.82	.02	1.23							
26																		
27																		
28					.01													
29	.32		.03	.59	.60		.66			.60		.35						
30																		
31																		
TOTAL	4.30	1.43	2.17	4.01	4.48		3.32	5.18	4.44	2.99	4.36	2.99						

*Recording gage

#Gage probably read only once a day.

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by: W.S.
Checked by: W.M.M.
Final check by: E.S.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO Ia-1 Stations located in the proximity of Tarkio River and West Tarkio Creek Watershed SHEET 7 OF 16 SHEETS

MONTH OF May and June 19 35

May, 1935

STATION / DATE	NO. 11 Near 7a.m.	NO. 11 Near 7p.m.	NO. 12 Westboro, 7a.m.	NO. 12 Westboro, 7p.m.	NO. 13 Mo. 7a.m.	NO. 13 Tarkio, Mo. 7p.m.	NO. 14 7a.m.	NO. 14 7p.m.	NO. 15 Near Westboro, Mo. 7a.m.	NO. 15 Near Westboro, Mo. 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1		#		#				#		#							
2																	
3																	
4																	
5																	
6																	
7	.03					.04	.02		.04								
8						.01			.01								
9																	
10																	
11	.15		1.20		.11		1.65		1.20								
12	.85				1.59	.55	.50		.42								
13	.26				.15	.22	.33		.30								
14	.33		.65		.05		.03		.03								
15	.03		.35			.45	.36		.39								
16	.42																
17						.15			.13								
18	.10		.60		.78		.14		.87								
19	.60		1.10		.11	1.00	.73		.91								
20	.66				.60		1.31		.66								
21	.52		.20				.46										
22			.21		.18		.09		.14								
23	.14				.02		.04										
24																	
25																	
26						.19			.21								
27	.10				.02	.27	.24		.30								
28	.33						.26		.01								
29	.16		.50			.20			.18								
30							.20										
31	1.22				.54	1.02			1.22								
TOTAL	6.00		4.81		4.15	4.10	6.16		7.00								

#Gage probably read only once a day.

June, 1935

STATION / DATE	NO. 11 7a.m.	NO. 11 7p.m.	NO. 12 7a.m.	NO. 12 7p.m.	NO. 13 7a.m.	NO. 13 7p.m.	NO. 14 7a.m.	NO. 14 7p.m.	NO. 15 7a.m.	NO. 15 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1	1.70	#	2.00		.35	1.50	1.49	#	1.30	#							
2						.02	1.95										
3						.01	.07		.05								
4	.01			.65		.03			.50								
5	.40					.76	.02		.10								
6	.10				.05		.59										
7																	
8																	
9						.70			.38								
10	.07																
11				.40													
12							.10										
13	.08					.03			.10								
14																	
15	.04																
16																	
17			2.00		.60	1.40			2.25								
18	2.37				.03		1.77										
19									.05								
20	.20			.65	.25				.19								
21																	
22																	
23									.22								
24	.07				.08		.22		.08								
25	.12				.08		.06		2.00								
26	1.08		1.00		1.02		1.04		.10								
27																	
28																	
29																	
30	.56			.80	.75				.68								
31																	
TOTAL	6.80		5.00	2.50	3.72	4.45	7.31		8.50								

#Gage probably read only once a day.

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by: W.S.
Checked by: W.M.M.
Final check by: E.S.
Stations listed in each watershed by location North to South

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1

Tarkio River Watershed

SHEET 8 OF 16 SHEETS

MONTH OF July and August 1935

July, 1935

STATION / DATE	NO. 1 7a.m.	NO. 1 7p.m.	NO. 2 7a.m.	NO. 2 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4* 7a.m.	NO. 4* 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1	.12							.57										
2																		
3																		
4					.02		.02											
5			.10															
6																		
7				1.02														
8																		
9	1.23		.34		1.64		.82		.89									
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22	.23		.09	.23			.04											
23						.94												
24	1.10				.52		.39		.10									
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	2.68		.53	1.25	2.38	.94	1.27	.57	.99									

*Recording gage

August, 1935

STATION / DATE	NO. 1 7a.m.	NO. 1 7p.m.	NO. 2 7a.m.	NO. 2 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2		.13				.09	.02											
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10							.21											
11																		
12			.09						.02									
13																		
14																		
15																		
16																		
17		.41		.78					.34									
18							.57											
19								.07	.02									
20	.18				.31		.24		.28									
21																		
22	1.10		.38	.37			.41	.10	.10									
23					.49													
24																		
25																		
26																		
27																		
28																		
29	.22		.10		.05			.04										
30			.09	.05	.02			.12		.15								
31		.15			.25		.14											
TOTAL	1.50	.69	.66	1.20	1.03	.09	1.89	.33	.76	.15								

*Recording gage

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by: W.S.
Checked by: W.M.M.
Final check by: E.S.
Stations listed in each watershed by location North to South

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. IA-1 West Tarkio Creek Watershed SHEET 9 OF 16 SHEETS

MONTH OF July and August 19 35 July, 1935

STATION / DATE	NO. 6 7a.m.	NO. 6 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.	NO. 8 7a.m.	NO. 8 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.
1							.77											
2																		
3																		
4			.02							.02								
5	.33				.01		.20		.02									
6												.03						
7	.82																	
8		.23																
9			1.34		1.36		.40		1.00	.02	1.16							
10																		
11																		
12																		
13					.03													
14																		
15					.06													
16																		
17																		
18																		
19				.04														
20																		
21																		
22			.03															
23	.58			.01				.85		.20								
24			.23		.39				.30	.01	.18							
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	1.73	.23	1.62	.05	1.53		1.57	.85	1.32	.25	1.34	.08						

*Recording gage

August, 1935

STATION / DATE	NO. 6 7a.m.	NO. 6 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.	NO. 8 7a.m.	NO. 8 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.
1										.02								
2	.06			.03	.03	.09		.10	.01	.02								
3											.03							
4																		
5																		
6																		
7																		
8																		
9						.28		.15				.12						
10																		
11																		
12			.03		.03													
13																		
14																		
15																		
16																		
17							.20											
18																		
19				.03		.04	.18			.05								
20			.31		.27		.27		.20		.32							
21																		
22		.80	.38		.35	.26	.52		.40	.10	.48							
23																		
24																		
25																		
26																		
27																		
28																		
29		.35	.05		.06		.15		.10									
30																		
31	.21		.15	.09	.15	.11	.50		.18	.22		.37						
TOTAL	.25	1.15	.92	.17	.89	.78	1.82	.25	.89	.41	.83	.79						

*Recording gage

Form SCS-361

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by: W.S.
Checked by W.M.M.
Final check by: E.S.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

Stations located in the proximity of Tarkio River and West Tarkio Creek Watershed

PROJECT NO. Ia-1

MONTH OF July and August 1935

SHEET 10 OF 16 SHEETS

July, 1935

STATION / DATE	NO. 11 Tenths	NO. 11 Near Tenths	NO. 12 Westboro, Tenths	NO. 12 Tenths	NO. 13 Mo. Tenths	NO. 13 Tenths	NO. 14 Tarkio, Mo. Tenths	NO. 14 Tenths	NO. 15 Near West-Tenths	NO. 15 Tenths	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1						.60	#	.76		#								
2																		
3	.05			.08					.05									
4																		
5			.02						.18									
6	.04																	
7									.88									
8				1.19	1.00	.10												
9	1.20		.02					.62										
10									.02									
11																		
12			.02															
13																		
14																		
15																		
16																		
17								.52										
18																		
19																		
20																		
21																		
22																		
23		.18		.30		.27			.20									
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	1.29	.18	.06	1.57	1.00	.97		1.90	1.33									

Gage previously read only once a day

August, 1935

STATION / DATE	NO. 11 Tenths	NO. 11 Near Tenths	NO. 12 Westboro, Tenths	NO. 12 Tenths	NO. 13 Mo. Tenths	NO. 13 Tenths	NO. 14 Tarkio, Mo. Tenths	NO. 14 Tenths	NO. 15 Near West-Tenths	NO. 15 Tenths	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2		.09		.23						.21								
3						.20		.26										
4																		
5																		
6																		
7																		
8																		
9		.04		.09						.16								
10							.10											
11																		
12			.01				.02											
13																		
14																		
15																		
16																		
17																		
18				.02														
19	.04		.05	.13		.32		.02		.21								
20	.17						.05	.27										
21																		
22	.35		.54					.49	.41									
23																		
24																		
25																		
26																		
27																		
28																		
29			.01															
30				.29			.53			.33								
31	.36	.26	1.07			.70	1.[illegible]			.52								
TOTAL	.92	.40	1.68	.91		1.22	2.41	1.04	.41	1.81								

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by: W.S.
Checked by: W.M.M.
Final check by: E.S.
Stations listed in each watershed by location North to South

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO Ia-1

MONTH OF September & October 1935

Tarkio River Watershed
September, 1935

SHEET 11 OF 16 SHEETS

STATION / DATE	NO. 1 7a.m.	NO. 1 7p.m.	NO. 2 7a.m.	NO. 2 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4* 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1		1.20	.60	.97	.77	.90	.72	1.12		2.41								
2		.15	.04		.02		.02											
3																		
4									.06									
5																		
6																		
7																		
8	1.32	.13	1.32	.04	1.25	.14	.51	.17		.85								
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16			.13		.77		.43		.64									
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25				.06	.05			.06		.02								
26	.91	1.20	1.20		1.91		1.98		1.57									
27																		
28																		
29																		
30																		
31																		
TOTAL	2.23	2.68	3.29	1.07	4.77	1.04	3.66	1.35	2.27	3.28								

*Recording gage

October, 1935

STATION / DATE	NO. 1 7a.m.	NO. 1 7p.m.	NO. 2 7a.m.	NO. 2 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4 7a.m.	NO. 4* 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5																		
6																		
7	.16		.14		.16		.12		.20									
8																		
9				.02														
10			.14		.18		.22		.20									
11																		
12			.02															
13																		
14																		
15																		
16																		
17	3.10	.11	2.23		1.60	.14	1.28		1.65									
18																		
19																		
20																		
21	.03		.04					.04	.13									
22					.07													
23																		
24																		
25																		
26				.02	.08													
27				.03			.06		.13									
28																		
29																		
30		.20		.15		.18		.10										
31	.69	.15	.30	.41	.86	.17	1.01		.87									
TOTAL	3.98	.46	2.87	.63	2.95	.49	2.69	.14	3.18									

*Recording gage

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by: W.S.
Checked by: W.M.M.
Final check by: E.S.
Stations listed in each watershed by location North to South

NAME West Tarkio Cr. Demonstration ~~Project~~ LOCATION Shenandoah, Iowa

PROJECT NO Ia-1
MONTH OF September & October 1935

West Tarkio Creek Watershed
September, 1935

SHEET 12 OF 16 SHEETS

STATION / DATE	NO. 6 7a.m.	NO. 6 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 9* 7a.m.	NO. 9* 7p.m.	NO. 8 7a.m.	NO. 8 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.
1	1.60	.08	.56	1.15	.97	.68	1.35	#	1.08	.54		1.51						
2											.03							
3			.01							.03								
4																		
5																		
6																		
7						.03												
8	1.80	.18	1.85	.18	1.26	.28	.78		.48	.12	1.50							
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16			.86		.91		.55		.26		.58							
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25		1.32		.04		.04	.10		.02	.38	.01	.01						
26			1.16		1.15		1.45		1.50			1.68						
27																		
28																		
29																		
30																		
31																		
TOTAL	3.40	1.58	4.44	1.37	4.29	1.03	4.23		3.34	1.07	2.12	3.20						

*Recording gage

October, 1935 #Gage probably read only once a day

STATION / DATE	NO. 6 7a.m.	NO. 6 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.	NO. 8 7a.m.	NO. 8 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5																		
6																		
7			.18		.17		.12		.20									
8																		
9		.28		.01	.23													
10			.13				.22		.20		.36							
11																		
12																		
13																		
14																		
15																		
16																		
17	2.70		1.65	.18	1.65	.04	1.27		1.18	.20	1.80							
18																		
19																		
20										.10		.15						
21			.05					.10										
22																		
23											.01							
24																		
25				.04		.08												
26	.15			.03	.02			.16				.04						
27			.03		.02						.10							
28																		
29																		
30				.18		.15				.31								
31	.90		.48	.30	.75	.13		1.16	.88	.26		1.29						
TOTAL	3.75	.28	2.52	.74	2.84	.40	1.61	1.42	2.46	.87	2.27	1.48						

*Recording gage

Form SCS-451

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by: W.S.
Checked by: W.M.M.
Final check by: E.S.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

Stations located in the proximity of Tarkio River and West Tarkio Creek Watersheds

PROJECT NO. Ia-1 SHEET 13 OF 16 SHEETS

MONTH OF September & October 1935

September, 1935

STATION / DATE	NO. 11 Near Westboro, Mo. 7a.m.	NO. 11 7p.m.	NO. 12 7a.m.	NO. 12 7p.m.	NO. 13 7a.m.	NO. 13 7p.m.	NO. 14 Tarkio, Mo. Near Westboro, 7a.m.	NO. 14 7p.m.	NO. 15 7a.m.	NO. 15 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1	.40	1.00	1.07	.04	1.62	#	.19	#	#	1.01								
2																		
3			.03															
4																		
5																		
6																		
7				.55						.33								
8	.36	.14	.05	.05	.64		.24			.11								
9							.08											
10																		
11																		
12																		
13																		
14										.27								
15					.23													
16	.36		.10				.31											
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25			.08	1.65	1.63					1.63								
26	1.32						2.25											
27																		
28																		
29																		
30																		
31																		
TOTAL	2.44	1.14	1.33	2.29	4.12		3.07			3.35								

#Gage probably read only once a day.

October, 1935

STATION / DATE	NO. 11 Near Westboro, Mo. 7a.m.	NO. 11 7p.m.	NO. 12 7a.m.	NO. 12 7p.m.	NO. 13 Missouri 7a.m.	NO. 13 7p.m.	NO. 14 Tarkio, Mo. Near Westboro, 7a.m.	NO. 14 7p.m.	NO. 15 7a.m.	NO. 15 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1						#		#										
2																		
3																		
4																		
5																		
6				.27														
7	.23				.24		.31											
8										.25								
9				.14	1.84													
10	.12						.13			.15								
11				.03														
12																		
13																		
14																		
15																		
16				.95	1.42					1.25								
17	.96	.50	.65				1.46			.35								
18																		
19																		
20		.11		.15						.20								
21				.01														
22																		
23																		
24																		
25			.04							.06								
26		.13	.10						.05									
27							.10											
28							.14											
29																		
30		.10		.83						.84								
31	1.11		.22				1.08			.20								
TOTAL	2.42	.84	1.01	2.40	3.50		3.22		.05	3.50								

#Gage probably read only once a day.

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

RECORD OF DAILY PRECIPITATION

Copied by: W.S.
Checked by: W.M.M.
Final check by: E.S.
Stations listed in each watershed by location North to South

NAME West Tarkio Cr. Demonstration Project LOCATION Tarkio River Watershed

PROJECT NO. Ia-1 SHEET 15 OF 16 SHEETS

MONTH OF November & December 1935 November, 1935

DATE \ STATION	NO. 1 7a.m.	NO. 1 7p.m.	NO. 2 7a.m.	NO. 2 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4* 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2			.15	.06	.22	.04	.20		.14									
3	.52	.41	.20	.76	.62	.51				1.24								
4					.02		.50	.43										
5																		
6																		
7																		
8																		
9																		
10									.03									
11	.25																	
12									.03									
13																		
14																		
15										.03								
16																		
17																		
18																		
19	.26				.33		.22		.15									
20																		
21																		
22																		
23																		
24																		
25																		
26		.46		.64		.94												
27	.56		.42						1.09									
28				.03														
29																		
30																		
31																		
TOTAL	1.59	.89	.77	1.49	1.19	1.49	.92	.43	1.44	1.27								

*Recording gage

December, 1935

DATE \ STATION	NO. 1 7a.m.	NO. 1 7p.m.	NO. 2 7a.m.	NO. 2 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5																		
6	.23		.21		.32		.18		.21									
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22	.08																	
23							.02											
24	.08																	
25					.04													
26							.07											
27	.02																	
28																		
29	.02																	
30							.02											
31										.20								
TOTAL	.43		.21		.36		.29		.21	.20								

*Recording gage

Form 0CS-231

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by: W.S.
Checked by: W.M.M.
Final check by: E.S.
Stations listed in each watershed by location North to South

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Creek Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1
MONTH OF November & December 1935

West Tarkio Creek Watershed
November, 1935

SHEET 15 OF 16 SHEETS

DATE	NO. 6 7a.m.	NO. 6 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16* 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 9* 7a.m.	NO. 9 7p.m.	NO. 8 7a.m.	NO. 8 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.
1					.12	.01			.13									
2	.12		.20		.18	.02		.60	.12		.16							
3			.27	.75	.30	.78		.66	.71	.43	1.25							
4			.02															
5																		
6																		
7																		
8																		
9																		
10		.12									.06							
11							.11											
12				.03	.01													
13																		
14					.02	.01												
15					.01							.02						
16					.01	.03												
17																		
18	.10									.05								
19			.11		.22		.22		.15		.36							
20																		
21																		
22																		
23																		
24																		
25																		
26	.95			.51		.60	1.20			.90		1.16						
27			.65				.11		.30									
28																		
29																		
30																		
31																		
TOTAL	1.17	.12	1.25	1.29	.87	1.45	1.64	1.26	1.41	1.38	1.80	1.18						

*Recording gage

December, 1935

DATE	NO. 6 7a.m.	NO. 6 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.	NO. 8 7a.m.	NO. 8 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5	.15									.02								
6			.15	.02	.13	.03	.22		.20	.03		.27						
7					.01													
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24				.04		.03	.07		.06									
25			.06		.05	.01												
26																		
27																		
28																		
29																		
30																		
31				.03		.04	.10											
TOTAL	.15		.21	.11	.19	.11	.39		.26	.05		.27						

*Recording gage

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by: W.S.
Checked by: W.M.M.
Final check by: E.S.

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1

Stations located in the proximity of Tarkio River and West Tarkio Creek Watersheds

SHEET 16 OF 16 SHEETS

MONTH OF November & December 1935

November, 1935

DATE \ STATION	NO. 11 Near Westboro, Missouri 7a.m.	NO. 11 7p.m.	NO. 12 7a.m.	NO. 12 7p.m.	NO. 13 7a.m.	NO. 13 7p.m.	NO. 14 Tarkio, Mo. 7a.m.	NO. 14 7p.m.	NO. 15 Near Westboro, Mo. 7a.m.	NO. 15 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1				.17	.21	#			#	.20								
2	.22		.40		1.40					.80								
3	.70	.48	.64															
4			.14															
5																		
6							No record											
7																		
8							for this											
9			.02		.15					.12								
10				.05			stations this											
11			.04							.20								
12							month.											
13																		
14			.03															
15		.19	.17							.10								
16																		
17																		
18				.18						.18								
19	.18				.18													
20																		
21																		
22																		
23																		
24																		
25																		
26		.70	1.02		.84					1.18								
27	.35	.05		.03	.20													
28										.02								
29																		
30																		
31																		
TOTAL	1.45	1.42	2.46	.43	2.98					2.70								

December, 1935 #Gage probably read only once a day

DATE \ STATION	NO. 11 Near Westboro, Missouri 7a.m.	NO. 11 7p.m.	NO. 12 7a.m.	NO. 12 7p.m.	NO. 13 7a.m.	NO. 13 7p.m.	NO. 14 Tarkio, Mo. 7a.m.	NO. 14 7p.m.	NO. 15 Near Westboro, Mo. 7a.m.	NO. 15 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5			.21	.17						.40								
6	.25		.02		No record		.24											
7	.05																	
8					for this													
9																		
10					station													
11																		
12					for this													
13																		
14					month													
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22			.03															
23																		
24																		
25																		
26																		
27																		
28																		
29				.03			.02											
30																		
31				.10				.10		.12								
TOTAL	.30		.26	.30			.26	.10		.52								

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by: W. S.
Checked by: W.M.M.
Final check by: E.S.
Stations listed in each watershed by location North to South

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 Tarkio River Watershed SHEET 1

MONTH OF January & February 19 36 January, 1936 OF 18 SHEETS

DATE \ STATION	NO. 1 7a.m.	NO. 1 7p.m.	NO. 2 7a.m.	NO. 2 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1	#		.18		.06	#		#	#									
2		.07	.36		.56		.62			.57								
3			.07				.07											
4																		
5																		
6																		
7																		
8		.07	.25		.20		.23											
9										.27								
10																		
11																		
12																		
13																		
14																		
15																		
16		.15	.21		.20		.14											
17		.28	.28															
18							.36											
19																		
20																		
21																		
22		.10		.12			.10											
23							.05											
24		.05		.16						.78								
25							.42											
26																		
27																		
28			.08	.03			.03			.07								
29																		
30																		
31																		
TOTAL		.72	1.41	.31	1.02		2.02			1.69								

*Recording gage
Gage probably read only once a day

February, 1936

DATE \ STATION	NO. 1 7a.m.	NO. 1 7p.m.	NO. 2 7a.m.	NO. 2 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3		.50	.11	.06				.03										
4							.10			.21								
5																		
6																		
7					1.00 Rain-													
8		.30	.24	.18	fall est.					.23								
9					for month		.08											
10																		
11		.12																
12																		
13							.03											
14			.08															
15																		
16																		
17			.03				.06	.03		.20								
18																		
19																		
20																		
21		.15						.04										
22																		
23																		
24																		
25																		
26			.03				.06											
27																		
28																		
29																		
30																		
31																		
TOTAL		1.[illegible]	.[illegible]2	.24	1.00		.33	.10		.64								

*Recording gage

Form SCS-381

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by: W.S.
Checked by: W.M.M.
Final check by: F.S.
Stations listed in each watershed by location north to south

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 West Tarkio Creek Watershed SHEET 2 OF 18 SHEETS

MONTH OF January & February 19 36 January, 1936

DATE \ STATION	NO. 6 7a.m.	NO. 6 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.	NO. 8 7a.m.	NO. 8 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.
1				.19	.39	.03						.24						
2	1.00		.33		.01							.47						
3				.10			No record		No record			.40						
4																		
5			.10				for this		for this									
6																		
7						.04	month		month									
8			.24		.23	.02												
9																		
10																		
11																		
12																		
13																		
14																		
15	.19																	
16			.29		.18													
17	.90			.15	.14	.22												
18			.09									.41						
19																		
20																		
21	.08																	
22			.11	.02	.21	.11						.04						
23					.02													
24	.60		.15	.22		.03												
25					.10													
26																		
27						.04												
28	.10			.02	.06	.03					.15							
29																		
30																		
31																		
TOTAL	3.07		1.32	.70	1.34	.75					.15	1.56						

Observing page

February, 1936

DATE \ STATION	NO. 6 7 a.m.	NO. 6 7 p.m.	NO. 7 7 a.m.	NO. 7 7 p.m.	NO. 16 7 a.m.	NO. 16 7 p.m.	NO. 10 7 a.m.	NO. 10 7 p.m.	NO. 9 7 a.m.	NO. 9 7 p.m.	NO. 8 7 a.m.	NO. 8 7 p.m.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3		.50		.05	.03	.10					.02							
4			.06		.04		No record		No record		.08							
5																		
6							for this		for this									
7						.02												
8		.18	.03	.04	.03	.07	month		month		.09	.20						
9					.01													
10																		
11						.01												
12					.01													
13																		
14																		
15																		
16																		
17		.18		.05		.05						.17						
18					.06													
19																		
20		.08										.12						
21				.04	.06	.07												
22																		
23																		
24																		
25		.03										.02						
26			.10		.06													
27																		
28																		
29																		
30																		
31																		
TOTAL		.97	.19	.18	.32	.32					.19	.51						

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by: W.S.
Checked by: W.M.N.
Final check by: E.S.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 Stations located in the proximity of Tarkio River and West Tarkio Creek Watersheds SHEET 3 OF 18 SHEETS

MONTH OF January & February Ia 36

January, 1936

STATION	NO. 11 Near Westboro, Missouri		NO. 12		NO. 13		NO. 14 Tarkio, Mo.		NO. 15 Near Westboro, Mo.		NO.	NO.	NO.	NO.	NO.	NO.	NO.
DATE	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.							
1	.10	#	.05	.60		#		.50	#	.68							
2																	
3				.02													
4				.02													
5				.02													
6																	
7				.20													
8								.02									
9	.40									.28							
10																	
11																	
12																	
13																	
14																	
15				.03	.29												
16							.40										
17	.28			.70				.06		.32							
18							.02										
19					.27												
20																	
21																	
22	.70			.25			.01			.16							
23				.30	1.00		.02										
24	.24			.70			.10			.54							
25					.32												
26																	
27																	
28	.44			.02	.31					.04							
29																	
30	.13				.21												
31																	
TOTAL	2.29		.05	2.06	2.40		.55	.63		2.02							

#Gage probably read only once a day.

February, 1936

STATION	NO. 11 Near Westboro, Missouri		NO. 12		NO. 13		NO. 14 Tarkio, Mo.		NO. 15 Near Westboro, Mo.		NO.	NO.	NO.	NO.	NO.	NO.	NO.
DATE	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.							
1						#			#								
2																	
3		.15					.10	.08									
4			.14														
5																	
6																	
7				.20													
8		.07					.17	.11		.12							
9																	
10	.04									.12							
11		.10															
12																	
13				.18													
14										.12							
15																	
16			.04														
17	.06	.05						.10		.05							
18																	
19																	
20										.06							
21		.05	.03					.05									
22																	
23																	
24					.21												
25																	
26	.04			.01			.03										
27					.23			.01									
28																	
29																	
30																	
31																	
TOTAL	.14	.42	.21	.39	.44		.30	.35		.47							

#Gage probably read only once a day.

Form SCS-551

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by: W.S.
Checked by: W.M.M.
Final check by: E.S.
Stations listed in each watershed by location north to south

RECORD OF DAILY PRECIPITATION

NAME: West Tarkio Cr. Demonstration Project — LOCATION: Shenandoah, Iowa

PROJECT NO. Ia-1 — SHEET 4 OF 18 SHEETS

MONTH OF March and April 19 36 — Tarkio River Watershed

March, 1936

STATION / DATE	NO. 1 7a.m.	NO. 1 7p.m.	NO. 2 7a.m.	NO. 2 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4* 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22						.16												
23	1.95		.70		.15		.19		.25									
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31							.02											
TOTAL	1.95		.70		.15	.16	.21		.25									

*Recording gage

April, 1936

STATION / DATE	NO. 1 7a.m.	NO. 1 7p.m.	NO. 2 7a.m.	NO. 2 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2									.20									
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10			.03															
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19									.19									
20						.02												
21							.02											
22																		
23																		
24																		
25						.02				.13								
26		.13		.07														
27		.11		.26		.37			2.00									
28		.11		.09		.22	.37	.58	2.05									
29	.16		.26		.44		.51											
30																		
31																		
TOTAL	.16	.35	.29	.42	.44	.63	.90	.58	4.44	.13								

*Recording gage

Form SCS-361

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by: W.S.
Checked by: W.M.M.
Final check by: E.S.
Stations listed in each watershed by location north to south

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 West Tarkio Creek Watershed SHEET 5 OF 18 SHEETS

MONTH OF March and April 1936 March, 1936

DATE \ STATION	NO. 6 7a.m.	NO. 6 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.	NO. 8 7a.m.	NO. 8 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5																		
6								No record		No record								
7																		
8								for this		for this								
9																		
10								month		month								
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22		1.30																
23	.04		.43		.17							.35						
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31						.07												
TOTAL	.04	1.30	.43		.17	.07						.35						

*Recording gage

April, 1936

DATE \ STATION	NO. 6 7a.m.	NO. 6 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.	NO. 8 7a.m.	NO. 8 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.
1	.01			.02	.03													
2			.03		.01													
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10							.02											
11										.10								
12										.05								
13										.02								
14																		
15																		
16																		
17																		
18																		
19										.08								
20					.02			.11		.12		.36						
21																		
22																		
23																		
24																		
25								.02										
26			.02	.06	.02	.04	.03	.07										
27	.21			.31	.09	.25		.41		.25								
28	.10	.23		.20	.01	.37		1.13		2.25	.44							
29			.34		.29		.50		.54		.36							
30		1.37								.07	1.10							
31																		
TOTAL	.32	1.60	.39	.59	.47	.66	.55	1.74	.54	2.94	2.40	.36						

*Recording gage

Form 804-251

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Copied by: W.S.
Checked by: W.M.M.
Final check by: E.S.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1

Stations located in the proximity of Tarkio River and West Tarkio Creek Watersheds

MONTH OF March and April 1936

SHEET 6 OF 18 SHEETS

DATE	NO. 11 Near Westboro, Missouri 7a.m.	NO. 11 7p.m.	NO. 12 7a.m.	NO. 12 7p.m.	NO. 13 7a.m.	NO. 13 7p.m.	NO. 14 Tarkio, Mo. 7a.m.	NO. 14 7p.m.	NO. 15 Near West-boro 7a.m.	NO. 15 7p.m.	NO. 17 Tarkio, Mo. 7a.m.	NO. 17 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4					.20													
5																		
6																		
7																		
8																		
9																		
10				.02														
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22		.28		.08			.37			.37								
23																		
24																		
25																		
26																		
27					.35													
28																		
29																		
30																		
31				.02														
TOTAL		.28		.12	.55		.37			.37								

April, 1936

DATE	NO. 11 Near Westboro, Missouri 7a.m.	NO. 11 7p.m.	NO. 12 7a.m.	NO. 12 7p.m.	NO. 13 7a.m.	NO. 13 7p.m.	NO. 14 Tarkio, Mo. 7a.m.	NO. 14 7p.m.	NO. 15 Westboro, Mo. 7a.m.	NO. 15 7p.m.	NO. 17 Tarkio, Mo. 7a.m.	NO. 17 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.
1			.04															
2										.05	.02							
3																		
4																		
5																		
6																		
7																		
8																		
9				.01														
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20		.65		.32				.78	.40			.05						
21	.55				.42						.02							
22																		
23																		
24																		
25		.56		.21					.36									
26		.04	.13	.03	.19			.02	.10		.15	.25						
27		.24	.26		.32				.10			.35						
28		.56	.43	1.14	.29			.24				1.03						
29	.75				.71			1.03	[illegible]		1.10							
30				1.49					1.10									
31																		
TOTAL	.80	1.45	.86	3.20	1.92			2.09	3.46	.05	1.47	1.70						

Form SCS-361

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by: E.S.
Checked by: W.M.M.
Final check by: E.S.
Stations listed in each watershed by location north to south

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 SHEET 7 OF 18 SHEETS

MONTH OF May and June 1936

Tarkio River Watershed
May, 1936

DATE \ STATION	NO. 1 7a.m.	NO. 1 7p.m.	NO. 2 7a.m.	NO. 2 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1	1.73		.95		1.50		1.37											
2																		
3																		
4	.09		.09		.04		.03											
5																		
6							.20											
7																		
8		.44		.27		.50		.42										
9	.98	.33	1.38	.79	1.03	.93	1.05		1.85									
10							.10											
11					.23		.04		.22									
12			.03	.04			.29	.07	.71									
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23		.11		.04					.20									
24		.04		.03		.39		.13	.40									
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	2.50	.92	2.38	1.08	2.82	1.52	3.43	.77	3.96									

*Recording gage

June, 1936

DATE \ STATION	NO. 1 7a.m.	NO. 1 7p.m.	NO. 2 7a.m.	NO. 2 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5		.31		.32		.49		.58		.50								
6	1.21		1.37		.90		.98		1.80									
7																		
8																		
9		.45		.53		.55		.58										
10																		
11																		
12																		
13																		
14																		
15																		
16								.36		.08								
17	.20																	
18						.16												
19									.15									
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28							.03											
29																		
30					.31		.54		.22									
31																		
TOTAL	1.41	.76	1.37	.87	1.21	1.20	1.55	1.22	2.17	.58								

*Recording gage

Form SCS-361

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by: W.S.
Checked by: W.M.M.
Final check by: E.S.
Stations listed in each watershed by location north to south

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1

West Tarkio Creek Watershed
May, 1936

SHEET 8 OF 18 SHEETS

MONTH OF May and June 19 36

DATE	NO. 6 7a.m.	NO. 6 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.	NO. 8 7a.m.	NO. 8 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.
1			1.18		1.39		1.56		1.07									
2																		
3																		
4			.06		.07		.04		.03	.04								
5																		
6			.04				.10		.13									
7											.05							
8		1.40		.32		.26		.30		.35		.81						
9	.60		1.10	.33	1.17	.30	1.20		.95	.24	1.06							
10			.22		.05						.26							
11			.02		.17	.07	.10		.04	.02								
12							.20	.15	.25	.55	1.74							
13																		
14																		
15																		
16																		
17												.10						
18																		
19																		
20																		
21																		
22																		
23	.45			.02		.17		.22		.12		.72						
24	.01			.06				.19		.27		.26						
25					.14													
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	1.07	1.40	2.42	.84	2.99	.82	3.20	.74	2.47	2.07	3.01	1.95						

*Recording gage

June, 1936

DATE	NO. 6	NO. 6	NO. 7	NO. 7	NO. 16	NO. 16	NO. 10	NO. 10	NO. 9	NO. 9	NO. 8	NO. 8	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5	3.25			.42				.60		.59		.55						
6			1.58				.90		1.04		2.11							
7						.40												
8					1.23													
9	.68			.40		.52		.48		.05		.56						
10																		
11																		
12																		
13																		
14																		
15																		
16								.10				.21						
17			.32		.34				.06									
18			.12															
19					.02													
20																		
21																		
22																		
23																		
24																		
25																		
26		.14																
27																		
28																		
29				.10	.02	.17				.06		.12						
30			.44					.47			.08							
31																		
TOTAL	3.93	.14	2.46	.92	1.61	1.09	.90	1.65	1.10	.70	2.19	1.42						

*Recording gage

Form SCS-251

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by: W.S.
Checked by: W.M.M.
Final check by: E.S.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 Stations located in the proximity of Tarkio River and West Tarkio Creek Watersheds SHEET 9 OF 18 SHEETS

MONTH OF May and June 19 36 May, 1936

STATION / DATE	NO. 11 Near Westboro, Missouri 7a.m.	NO. 11 7p.m.	NO. 12 7a.m.	NO. 12 7p.m.	NO. 13 7a.m.	NO. 13 7p.m.	NO. 14 Tarkio, Mo. 7a.m.	NO. 14 7p.m.	NO. 15 Near Westboro, Mo. 7a.m.	NO. 15 7p.m.	NO. 17 Tarkio, Mo. 7a.m.	NO. 17 7p.m.	NO. 18 Shenandoah, 7a.m.	NO. 18 7p.m.	NO. 19 Red Oak, Ia. 7a.m.	NO. 19 7p.m.	NO.	NO.
1	1.40		.01		1.57		1.45				1.40		.99		1.57			
2															.01			
3																		
4													.02		.04			
5																		
6										.15			.06		.01			
7	.05		.14									.02		.07				
8		.62	.36	1.53	2.03		1.70		1.90			.20		.28		.14		
9	1.00	.45	.21		.32				.40		1.25	.29	1.31	.11	1.06	.31		
10				.01					.72									
11	.05		.33								.03		.03					
12	.40	.90	.53				.86				.30	.57	.22	.04	.03	.01		
13																		
14																		
15																		
16																		
17				.34	.20													
18	.10							.50	.10		.53							
19																		
20																		
21																		
22																.08		
23		.37	.11						.45		.35					.02		
24		.04	.15		.19			.24			.05	.09	.16			.03		
25	.12										.06							
26																		
27									.20									
28																		
29																		
30															.02	.03		
31																		
TOTAL	3.12	2.38	1.34	1.88	4.31		4.01	.74	3.77	.15	3.97	1.77	2.79	.50	3.04	.62		

June, 1936

STATION / DATE	NO. 11 Near Westboro, Missouri 7a.m.	NO. 11 7p.m.	NO. 12 7a.m.	NO. 12 7p.m.	NO. 13 7a.m.	NO. 13 7p.m.	NO. 14 Tarkio, Mo. 7a.m.	NO. 14 7p.m.	NO. 15 Near Westboro, Mo. 7a.m.	NO. 15 7p.m.	NO. 17 Tarkio, Mo. 7a.m.	NO. 17 7p.m.	NO. 18 Shenandoah, 7a.m.	NO. 18 7p.m.	NO. 19 Red Oak, Ia. 7a.m.	NO. 19 7p.m.	NO.	NO.
1																		
2																		
3																		
4																		
5		.50	.40	1.80	2.23					2.65		.21		.30		.25		
6	1.85							2.85			1.50		2.00		.53			
7																		
8																		
9		.75	.35		.50					.47		.10		.58		.55		
10								.30										
11																		
12																		
13																		
14												.01						
15																		
16		.25		.14				.20	.25					.25				
17											.15							
18																		
19													.31					
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27	.05														.06			
28																		
29		.15	.30		.18							.42	.46					
30								.02	.21									
31																		
TOTAL	1.90	1.65	1.07	1.94	2.92			3.37	.46	3.12	1.66	.84	2.77	1.13	.59	.80		

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by: W.S.
Checked by: W.M.M.
Final check by: E.S.
Stations listed in each watershed by location north to south

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 Tarkio River Watershed SHEET 10 OF 18 SHEETS

MONTH OF July & August 19 36

July, 1936

DATE \ STATION	NO. 1 7a.m.	NO. 1 7p.m.	NO. 2 7a.m.	NO. 2 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4* 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19				.78														
20	.26		.07		.46		.92		.49									
21																		
22																		
23																		
24																		
25																		
26																		
27				.02				.06										
28									.16									
29																		
30																		
31																		
TOTAL	.26		.07	.80	.46		.92	.06	.65									

*Recording gage

August, 1936

DATE \ STATION	NO. 1 7a.m.	NO. 1 7p.m.	NO. 2 7a.m.	NO. 2 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4	.73			.02			.04	.31										
5			.41		.45		.03		.37									
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16					.04		.03											
17																		
18																		
19	.10		.05															
20	.11		.03		.24		.36		1.58									
21	.07	.06	.10	.19		.11	.01	.07										
22	.25	.41	.28	.03	.18	.41	.21	.06	.11									
23																		
24																		
25																		
26																		
27							.28											
28	.20		.28						.23									
29																		
30																		
31																		
TOTAL	1.46	.47	1.20	1.04	.91	.52	.96	.44	2.29									

*Recording gage

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by: W.S.
Checked by: W.M.M.
Final check by: E.S.
Stations listed in each watershed by location North to South

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 West Tarkio Creek Watershed SHEET 1 OF 18 SHEETS

MONTH OF July and August IA 36 July, 1936

DATE \ STATION	NO. 6 7a.m.	NO. 6 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 9* 7a.m.	NO. 9 7p.m.	NO. 8 7a.m.	NO. 8 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19		.50			.60		.30					.11						
20			.62						.08									
21																		
22																		
23																		
24																		
25																		
26																		
27								.06										
28									.07									
29																		
30																		
31																		
TOTAL		.50	.62		.60		.30	.06	.15			.11						

*Recording gage

August, 1936

DATE \ STATION	NO. 6	NO. 6	NO. 7	NO. 7	NO. 16	NO. 16	NO. 10	NO. 10	NO. 9	NO. 9	NO. 8	NO. 8	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4	.61					.02				.04								
5			.33		.27		.41		.28		.31							
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13						.01												
14						.02												
15			.02				.14		.11									
16					.30													
17																		
18																		
19	.45		.14		.12	.10	.10	.21		.20								
20					.07		.23		1.10		1.61							
21	.42			.15	.10	.13		.12	.10	.34								
22	.22		.48	.81	.44	.91	.40	.45										
23																		
24																		
25																		
26																		
27		.25																
28			.25		.30		.33		.28			.49						
29																		
30																		
31																		
TOTAL	1.70	.25	1.22	.96	1.60	1.24	1.61	.78	1.37	.58	1.92	.49						

*Recording gages

Form 303-361

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by W. S.
Checked by W.M.M.
Final check by B.S.

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 Stations located in the proximity of Tarkio River and West Tarkio Creek Watershed

MONTH OF July and August 1936 SHEET 12 OF 18 SHEETS

July, 1936

DATE	NO. 11 Bear Westboro, Missouri, 7a.m.	NO. 11 7p.m.	NO. 12 7a.m.	NO. 12 7p.m.	NO. 13 7a.m.	NO. 13 7p.m.	NO. 14 Tarkio, Mo. 7a.m.	NO. 14 7p.m.	NO. 15 Bear Westboro, Mo. 7a.m.	NO. 15 7p.m.	NO. 17 Tarkio, Mo. 7a.m.	NO. 17 7p.m.	NO. 18 Shenandoah, Red Oak, Ia. 7a.m.	NO. 18 7p.m.	NO. 19 7a.m.	NO. 19 7p.m.	NO. 7a.m.	NO. 7p.m.
1																		
2																		
3																		
4					.09													
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12			.09															
13																		
14																		
15																		
16																		
17																		
18																		
19				.18	.10				.09						.35			
20			.03					.15	.05		.10		.11					
21		.19											.07					
22																		
23																		
24																		
25																		
26																		
27		.13		.04											.05	.05		
28									.02		.05							
29																		
30																		
31																		
TOTAL		.32	.12	.22	.19			.15	.16		.15		.18		.40	.05		

August, 1936

DATE	NO. 11 Bear Westboro, Missouri 7a.m.	NO. 11 7p.m.	NO. 12 7a.m.	NO. 12 7p.m.	NO. 13 7a.m.	NO. 13 7p.m.	NO. 14 Tarkio, Mo. 7a.m.	NO. 14 7p.m.	NO. 15 Bear Westboro, Mo. 7a.m.	NO. 15 7p.m.	NO. 17 Tarkio, Mo. 7a.m.	NO. 17 7p.m.	NO. 18 Shenandoah, Red Oak, Ia. 7a.m.	NO. 18 7p.m.	NO. 19 7a.m.	NO. 19 7p.m.	NO. 7a.m.	NO. 7p.m.
1																		
2																		
3																		
4		.10	.09	.23					.35				.13			.03		
5	.25		.02					.32			.27				.50			
6																		
7			.03															
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15	.05			.04									.03					
16																		
17													.02					
18					1.70				.11									
19		.15	.10	1.10					1.35			.60	.18			.05		
20	1.25		.02					.12			1.25		.17		.60			
21				.17	.20				.42				.29		.31			
22	.15			.02				.15	.05		.19			.41	.40	.60		
23																		
24																		
25																		
26					.30													
27				.40														
28	.23							.28	.25		.23		.29		.22			
29																		
30																		
31			.02											.03				
TOTAL	1.98	.25	.26	1.96	2.20			1.10	2.73		1.90	.60	1.26	.44	1.60	.68		

Form SCS-361

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by: W.S.
Checked by: W.M.M.
Final check by: E.S.
Stations listed in each watershed by location North to South

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 Tarkio River Watershed SHEET 13 OF 18 SHEETS

MONTH OF September & October 19 36 September, 1936

DATE \ STATION	NO. 1 7a.m.	NO. 1 7p.m.	NO. 2 7a.m.	NO. 2 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1		.07		.09		.02		.05										
2	.26		.16		.19		.02		.23									
3																		
4		.72		1.06		.99												
5	1.36		1.20		1.03		1.68	.39	2.00									
6																		
7	.73		.47		.10		.04											
8																		
9							.01											
10																		
11		[illegible]		1.05		.06		.02										
12	.21	[illegible]	1.49	.76	1.05	.75	.46	[illegible]	.30									
13					.03													
14																		
15	.05	.75		.16				.20	.33									
16	.67		.22		.34		.04											
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26	2.02	.66	1.00	.85	.54	1.22												
27							.40	1.13	1.69									
28																		
29																		
30							.10		.05									
31																		
TOTAL	5.32	3.93	4.45	4.27	3.28	3.64	2.75	2.[illegible]	5.15									

*Recording gage

October, 19[illegible]

DATE \ STATION	NO. 1 7a.m.	NO. 1 7p.m.	NO. 2 7a.m.	NO. 2 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4		.51	.04	1.01		.36		.76										
5	.25		.67		1.14		.27		.80									
6					.05													
7							.01											
8																		
9							.03											
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21							.04											
22																		
23																		
24																		
25						.09		.13										
26									.22									
27																		
28																		
29																		
30																		
31			.08															
TOTAL	.25	.5[illegible]	.7[illegible]	1.02	1.49	.95	.35	.89	1.02									

*Recording gage

Form SCS-361

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by W.S.
Checked by W.M.M.
Final check by E.S.
Stations listed in each watershed by location North to South

RECORD OF DAILY PRECIPITATION

NAME: West Tarkio Cr. Demonstration Project — LOCATION: Shenandoah, Iowa

PROJECT NO. Ia-1 — West Tarkio Creek Watershed — SHEET 14 OF 18 SHEETS

MONTH OF September & October 19 36 — September, 1936

DATE \ STATION	NO. 6 7a.m.	NO. 6 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.	NO. 8 7a.m.	NO. 8 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.
1	.10	.22	.03			.01		.05										
2			.24		.10				.45			.50						
3																		
4	.11	2.06		1.61		1.59		1.30		1.53		1.69						
5			1.00		1.19		1.35		.65		.66							
6		.51																
7			.23		.24		.20											
8																		
9																		
10																		
11	.65	.40		.34		.27		.23				.51						
12	.83		.98	.90	.98	.70	.60	.45	.42	.76	.81							
13			.04		.30	.07	.40		.05		.03							
14																		
15	.60			.10				.20		.22								
16			.19						.06									
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26		1.92	.80	1.23	1.17	.83	1.23	.10	.69	1.45		1.69						
27																		
28																		
29																		
30			.02						.15		.15							
31																		
TOTAL	2.19	5.61	3.62	3.98	4.08	2.53	3.43	2.83	1.87	3.98	1.65	4.39						

October, 1936

DATE \ STATION	NO. 6 7a.m.	NO. 6 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.	NO. 8 7a.m.	NO. 8 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4	1.31		.12	.84	1.29	1.71		.70		.63								
5			2.54		.07		.50		.60	.02	1.26							
6												.16						
7			.04															
8																		
9			.03															
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24						.10												
25					.33					.10		.20						
26			.02															
27																		
28																		
29																		
30																		
31			.02															
TOTAL	1.31		2.77	.84	1.69	1.81	.50	.70	.60	.75	1.26	.36						

RECORDING AREA

Form SCS-351

Copied by: W.S.
Checked by: W.M.M.
Final check by: E.S.

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 Stations located in the proximity of Tarkio River and West Tarkio Creek Watersheds SHEET 15 OF 18 SHEETS

MONTH OF September & October 1936

September, 1936

STATION / DATE	NO. 11 Near		NO. 11 Westboro,		NO. 12 Missouri		NO. 12		NO. 13 Tarkio,		NO. 13		NO. 14		NO. 14		NO. 15		NO. 15		NO. 17 Tarkio,		NO. 17		NO. 18 Shenandoah,		NO. 18		NO. 19 Red Oak,		NO. 19 Ia.		NO.		NO.	
	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.				
1		.05	.01	.17	.30												.18															.07				
2	.24														.26						.75				.21				.07							
3																																1.06				
4		1.53	1.84	.82	1.77										.32		2.44						2.25				1.70		1.74							
5	.50								2.00						.20						1.75				.90											
6				.04																																
7																					.25				.43											
8				.12											.28																					
9	.09																				.12				.05											
10																	.10																			
11		.20	.14	.42																							.35					.36				
12	.30	.28	.19												.62		.55		.35		1.10				.42		.63		.25		1.18					
13	.04																								.01											
14					1.20																															
15		.20	.58	.25													.64						.65				.19		.12		.18					
16	.35														.72						.35				.07				1.28							
17																																				
18																																				
19					1.23																															
20																																				
21																																				
22																																				
23																																				
24																																				
25				.40	1.30																															
26	.58	1.07	1.19												.60		.52				.65		1.05		2.00		1.50		1.33		.75					
27															1.02		1.10												.25							
28					.20																															
29				.06																																
30	.16																.10				.15															
31																																				
TOTAL	2.26	3.33	3.95	2.28	6.50				2.00						4.02		5.83		.35		5.12		3.95		4.54		4.31		5.04		3.60					

#Gage probably read only once a day.

October, 1936

STATION / DATE	NO. 11 Near		NO. 11 Westboro,		NO. 12 Missouri		NO. 12		NO. 13 Tarkio,		NO. 13		NO. 14		NO. 14		NO. 15 Westboro,		NO. 15 Mo.		NO. 17 Tarkio,		NO. 17 Mo.		NO. 18 Shenandoah,		NO. 18		NO. 19 Red Oak,		NO. 19 Ia.		NO.		NO.	
	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.				
1																																				
2												#		#						#																
3																																				
4		.30	.34	.40	.75																		.05				1.50				.65					
5	.63														1.50		.95				.85				2.50				.26							
6																																				
7																																				
8		.05	.03														.04																			
9																									.03											
10																																				
11																																				
12					.25																															
13																																				
14																																				
15																																				
16																																				
17																																				
18																																				
19																																				
20		.06	.05	.12	.50																										.02					
21																					.23															
22																																				
23																																				
24																																				
25		.20	.10	.22																																
26															.18		.20				.30															
27				.05																																
28																																				
29																																				
30																																				
31				.21																					.07											
TOTAL	.63	.61	.52	.62	1.50										1.68		1.19				1.38		.05		2.60		1.80		.26		.67					

#Gage probably read only once a day.

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by W.S.
Checked by W.M.M.
Final check by E.S.
Stations listed in each watershed by location North to South

NAME West Tarkio Cr. Demonstration ~~Project~~ LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 SHEET 16 OF 18 SHEETS

MONTH OF November & December 19 36

Tarkio River Watershed
November, 1936

DATE \ STATION	NO. 1 7a.m.	NO. 1 7p.m.	NO. 2 7a.m.	NO. 2 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4* 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1			.03			.26				.05								
2	.60		.45				.32											
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20										.02								
21																		
22																		
23																		
24																		
25																		
26							.02											
27																		
28																		
29																		
30																		
31																		
TOTAL	.60		.48			.26	.34			.07								

*Recording gage

December, 1936

DATE \ STATION	NO. 1 7a.m.	NO. 1 7p.m.	NO. 2 7a.m.	NO. 2 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4* 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5		.10																
6	.50						.46			.43								
7			.43															
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18										.04								
19							.07											
20																		
21																		
22																		
23																		
24																		
25							.18											
26		.30	.65							.16								
27							.04											
28			.04															
29									.69									
30	.50		.65		1.30		.85											
31							.06											
TOTAL	1.00	.40	[illegible]		1.30		1.66		.69	.63								

*Recording gage

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by: W.S.
Checked by W.M.M.
Final Check by: E.S.
Stations listed in each watershed by location North to South

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1
MONTH OF November & December 19 36

West Tarkio Creek Watershed
November, 1936

SHEET 17 OF 18 SHEETS

DATE \ STATION	NO. 6 7a.m.	NO. 6 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 9* 7a.m.	NO. 9* 7p.m.	NO. 8 7a.m.	NO. 8 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.
1			.03								.18							
2								.45	.18									
3																		
4																		
5																		
6																		
7						.01												
8									No record									
9									from Nov.8									
10									to Dec. 30,									
11									1936									
12									for this									
13									station.									
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25	.05																	
26			.03															
27																		
28																		
29																		
30																		
31																		
TOTAL	.05		.06			.01		.45	.18		.18							

*Recording gage

December, 1936

DATE \ STATION	NO. 6 7a.m.	NO. 6 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 9* 7a.m.	NO. 9* 7p.m.	NO. 8 7a.m.	NO. 8 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4		.40							No									
5				.36	.13	.11	.33		record									
6			.13		.10													
7									for this									
8																		
9									month									
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17					.07													
18		.04		.05			.82											
19																		
20																		
21																		
22																		
23																		
24																		
25		.45																
26	.15		.48	.02	.78	.02	.35					.94						
27																		
28							.05											
29		.80																
30			.60		.67		.47				.53							
31																		
TOTAL	.15	1.69	1.21	.43	1.75	.13	2.02				.53	.94						

*Recording gage

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by: W.S.
Checked by: W.M.M.
Final check by: E.S.

NAME: West Tarkio Cr. Demonstration Project — LOCATION: Shenandoah, Iowa

PROJECT NO. Ia-1 — Stations located in the proximity of Tarkio River and West Tarkio Creek Watershed — SHEET 18 OF 18 SHEETS

MONTH OF November & December 19 36

November, 1936

DATE \ STATION	NO. 11 Near Westboro, Mo. 7a.m.	NO. 11 7p.m.	NO. 12 Westboro, Mo. 7a.m.	NO. 12 7p.m.	NO. 13 Missouri Tarkio, Mo. 7a.m.	NO. 13 7p.m.	NO. 14 7a.m.	NO. 14 7p.m.	NO. 15 Near Westboro, Mo. 7a.m.	NO. 15 7p.m.	NO. 17 Tarkio, Mo. 7a.m.	NO. 17 7p.m.	NO. 18 Shenandoah, Ia. 7a.m.	NO. 18 7p.m.	NO. 19 Red Oak, Ia. 7a.m.	NO. 19 7p.m.	NO.	NO.
1	.23			.10					.20		.18		.15					
2	.09		.03					.32					.22		.65			
3																		
4					.03													
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24											.15							
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	.32		.03	.10	.03			.32	.20		.33		.37		.65			

December, 1936

DATE \ STATION	NO. 11 Near Westboro, Mo. 7a.m.	NO. 11 7p.m.	NO. 12 Westboro, Mo. 7a.m.	NO. 12 7p.m.	NO. 13 Missouri Tarkio, Mo. 7a.m.	NO. 13 7p.m.	NO. 14 7a.m.	NO. 14 7p.m.	NO. 15 Near Westboro, Mo. 7a.m.	NO. 15 7p.m.	NO. 17 Tarkio, Mo. 7a.m.	NO. 17 7p.m.	NO. 18 Shenandoah, Ia. 7a.m.	NO. 18 7p.m.	NO. 19 Red Oak, Ia. 7a.m.	NO. 19 7p.m.	NO.	NO.
1																		
2																		
3																		
4				.10	.54													
5		.52		.42							.09	.50				.39		
6									.56		.10							
7													.40					
8																		
9																		
10																		
11																		
12																		
13											.10							
14																		
15																		
16																		
17																		
18		.10	.06						.05									
19																		
20																		
21																		
22																		
23																		
24																		
25				.14					.14									
26	.08	.22		.09	.33		.50		.20					.30	.24	.07		
27																		
28					.60													
29				.48							.75							
30	.47								.41				.56		.57			
31																		
TOTAL	.55	.84	.06	1.23	1.47		.50		1.36		1.04	.50	.96	.30	.81	.46		

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by W.S.
Checked by W.M.M.
Final check by E.S.
Stations listed in each watershed by location North to South

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

Tarkio River Watershed

PROJECT NO Ia-1 SHEET 1
MONTH OF January & February 1937 January, 1937 OF 18 SHEETS

DATE \ STATION	NO. 1 7a.m.	NO. 1 7p.m.	NO. 2 7a.m.	NO. 2 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2		.14					.05			.05								
3			Gage															
4			discontinued		No record													
5			after		for this													
6		.05	December		month			.03										
7		.55	1936					.55										
8							1.10											
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20							.04											
21																		
22																		
23																		
24										1.17								
25																		
26																		
27																		
28																		
29								.07										
30	.54						.13	.25	.25									
31																		
TOTAL	.54	.74					1.32	.90	.25	1.22								

*Recording gage

February, 1937

DATE \ STATION	NO. 1 7a.m.	NO. 1 7p.m.	NO. 2 7a.m.	NO. 2 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3								.02										
4					Observer													
5					probably													
6					did not													
7					record													
8	.20				moisture													
9					this month													
10																		
11																		
12																		
13																		
14																		
15																		
16										.02								
17																		
18																		
19								.03		.02								
20								.30	1.00									
21	1.00						.03		.14									
22																		
23																		
24																		
25																		
26																		
27							.02											
28																		
29																		
30																		
31																		
TOTAL	1.20						.05	.35	1.14	.04								

*Recording gage

Form SCS-261

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by W.S.
Checked by W.M.M.
Final check by E.S.
Stations listed in each watershed by location North to South

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 West Tarkio Creek Watershed SHEET 2

MONTH OF January & February 19 37 January, 1937 OF 18 SHEETS

STATION / DATE	NO. 6 7a.m.	NO. 6 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.	NO. 8 7a.m.	NO. 8 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.
1		.04																
2			.08		.04				No record for this month		Station abandoned after Dec. 1936							
3																		
4																		
5																		
6				.06		.10												
7	.85		.06	.10	.11	.92	.50											
8			.33		.45													
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20			.03															
21																		
22																		
23																		
24																		
25																		
26																		
27							.02											
28							.02											
29	.36			.04		.07		.30										
30			.36		.13	.10												
31																		
TOTAL	1.21	.04	.86	.20	.73	1.19	.54	.30										

*Recording gage

February, 1937

STATION / DATE	NO. 6 7a.m.	NO. 6 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3			.02	.04					No record for this month									
4																		
5					.02	.37												
6					.09													
7																		
8			.02															
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17				.02														
18																		
19		1.00	1.02															
20		.15	.04				1.00											
21						.03												
22					.01													
23																		
24																		
25																		
26																		
27					.07	.53												
28					.10													
29																		
30																		
31																		
TOTAL		1.15	1.08	.06	.29	.93	1.00											

*Recording gage

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by: W.S.
Checked by: W.M.M.
Final check by: E.S.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

Stations located in the proximity of Tarkio River and West Tarkio Creek Watershed

PROJECT NO Ia-1

MONTH OF January & February 1937

SHEET 3 OF 18 SHEETS

January, 1937

STATION / DATE	NO. 11 Near 7a.m.	NO. 11 7p.m.	NO. 12 Westboro, 7a.m.	NO. 12 7p.m.	NO. 13 Missouri 7a.m.	NO. 13 7p.m.	NO. 14 Tarkio, Mo. 7a.m.	NO. 14 7p.m.	NO. 15 Near West- 7a.m.	NO. 15 7p.m.	NO. 17 Tarkio, Mo. 7a.m.	NO. 17 7p.m.	NO. 18 Shenandoah, 7a.m.	NO. 18 7p.m.	NO. 19 Red Oak, Ia. 7a.m.	NO. 19 7p.m.	NO.	NO.
1											.10							
2											.08			.01				
3					.03		No record for this month											
4																		
5																		
6			.14									.10				.13		
7				.12					1.50		.15	.35	.11	.70		.44		
8	.75										.40	.05	.70		.56			
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19				.02														
20			.01															
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29			.20	.18														
30					.47				.45		.39		.40		.38			
31																		
TOTAL	.75		.35	.32	.50				1.95		1.06	.50	1.21	.71	.94	.57		

February, 1937

STATION / DATE	NO. 11 Near 7a.m.	NO. 11 7p.m.	NO. 12 Westboro, 7a.m.	NO. 12 7p.m.	NO. 13 Missouri 7a.m.	NO. 13 7p.m.	NO. 14 Tarkio, Mo. 7a.m.	NO. 14 7p.m.	NO. 15 Near West- 7a.m.	NO. 15 7p.m.	NO. 17 Tarkio, Mo. 7a.m.	NO. 17 7p.m.	NO. 18 Shenandoah, 7a.m.	NO. 18 7p.m.	NO. 19 Red Oak, Ia. 7a.m.	NO. 19 7p.m.	NO.	NO.
1																		
2					.04													
3			.05															
4																		
5																		
6											.35							
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17			.04															
18																		
19			.05											.01				
20	1.00		1.22		.47		.50							.42	.55			
21									.45		.25							
22																		
23																		
24																		
25																		
26				.04														
27															.05			
28																		
29																		
30																		
31																		
TOTAL	1.00		1.35	.04	.51		.50		.45		.60			.51	.60			

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by W.S.
Checked by W.M.M.
Final check by E.S.
Stations listed in each watershed by location North to South

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 Tarkio River Watershed SHEET 4

MONTH OF March & April 19 37 March, 1937 OF 18 SHEETS

DATE \ STATION	NO. 1 7a.m.	NO. 1 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3						.01												
4		.96			.25													
5				1.65														
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17						.01												
18																		
19				.32		.34												
20	.25		.10		.25		.79											
21																		
22																		
23		.33		.34		.37												
24	.24	.20	.25	.17	.23	.23	.78											
25																		
26	.06																	
27																		
28																		
29																		
30																		
31																		
TOTAL	.55	1.49	.35	2.48	.73	.96	1.57											

*Recording gage

April, 1937

DATE \ STATION	NO. 1 7a.m.	NO. 1 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1					.05													
2																		
3	Gage dis-																	
4	continued																	
5	until May 21,																	
6	1938.																	
7					.23	1.00		1.43										
8					.21													
9																		
10																		
11																		
12					.01		.02											
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20			.26	.02	.32	.77												
21							.90											
22																		
23																		
24			.16	.27	.25	.18												
25					.11	.11	.52											
26																		
27																		
28																		
29				.28	.04	.04		.07										
30																		
31																		
TOTAL			.42	1.37	1.38	2.10	1.44	1.50										

*Recording gage

Form SCS-361

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

RECORD OF DAILY PRECIPITATION

Copied by: W. S.
Checked by: W.M.M.
Final check by: E.S.
Stations listed in each watershed by location North to South

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO Ia-1
MONTH OF March & April 19 37

West Tarkio Creek
March, 1937

SHEET 5 OF 18 SHEETS

DATE	NO. 6 7a.m.	NO. 6 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2						.03			No record									
3	.39								for this									
4			.30		.46				month									
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17				.01				.03										
18																		
19				.49		.12		.55										
20	.49		.10		.15													
21																		
22																		
23	.35			.42		.32		.50										
24	.47		.18	.24	.44	.17	.25	.50										
25			.01	.03	.01													
26																		
27					.03													
28																		
29																		
30					.01													
31																		
TOTAL	1.59		.59	1.18	1.10	.64	.25	1.58										

*Recording gage

April, 1937

DATE	NO. 6 7a.m.	NO. 6 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1			.02															
2																		
3						.03												
4																		
5																		
6		1.12																
7			.47	.62	.43	.54	.62	.75	.45	1.07								
8			.19		.31		.27		.06									
9																		
10																		
11							.08											
12			.13		.13													
13																		
14																		
15																		
16																		
17																		
18																		
19		.52																
20			.11	.45	.19			.70	.14	.20								
21																		
22																		
23		.85		.33		.22		.55		.20								
24			.11	.13	.18	.03		.30	.27									
25			.03		.03													
26																		
27																		
28	.15			.07		.08				.07								
29				.07		.16		.08		.05								
30					.03													
31																		
TOTAL	.15	2.52	1.06	1.67	1.30	1.06	.97	2.38	.93	2.19								

*Recording gage

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by W.S.
Checked by W.M.M.
Final check by E.S.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

Stations located in the proximity of Tarkio River and West Tarkio Creek Watershed

PROJECT NO. Ia-1

MONTH OF March and April 1937

SHEET 6 OF 18 SHEETS

March, 1937

DATE \ STATION	NO. 11 Near Westboro, Missouri 7a.m.	NO. 11 7p.m.	NO. 12 7a.m.	NO. 12 7p.m.	NO. 13 7a.m.	NO. 13 7p.m.	NO. 14 Tarkio, Mo. 7a.m.	NO. 14 7p.m.	NO. 15 Near Westborn, Mo. 7a.m.	NO. 15 7p.m.	NO. 17 Tarkio, Mo. 7a.m.	NO. 17 7p.m.	NO. 18 Shenandoah, Iowa 7a.m.	NO. 18 7p.m.	NO. 19 Red Oak, Ia. 7a.m.	NO. 19 7p.m.	NO.	NO.
1																		
2																		
3				.22										.02				
4	.30							.20	.30		.32		.28		.46			
5																		
6					Total for													
7					month given													
8					below													
9																		
10																		
11																		
12																		
13			.02															
14																		
15																		
16																		
17																		
18																		
19		.15	.31	.33							.20			.06	.46			
20	.30							.32	.49			.50	.44					
21																		
22													.01					
23		.34	.50	.15					.65			.20		.43		.36		
24	.12	.20	.23	.05				.61			.55		.28	.15	.13	.42		
25								.32	.29		.22		.05					
26														.02				
27																		
28			.03															
29																		
30																.03		
31				.46					.06									
TOTAL	.72	.69	1.00	.81	2.97			1.45	1.79		1.29	.70	1.06	.73	1.05	.83		

April, 1937

DATE \ STATION	NO. 11 Near 7a.m.	NO. 11 7p.m.	NO. 12 Westboro, Missouri 7a.m.	NO. 12 7p.m.	NO. 13 7a.m.	NO. 13 7p.m.	NO. 14 Tarkio, Mo. 7a.m.	NO. 14 7p.m.	NO. 15 Near Westborn, Mo. 7a.m.	NO. 15 7p.m.	NO. 17 Tarkio, Mo. 7a.m.	NO. 17 7p.m.	NO. 18 Shenandoah 7a.m.	NO. 18 7p.m.	NO. 19 Red Oak, Ia. 7a.m.	NO. 19 7p.m.	NO.	NO.
1	.11				.20				.06				.02					
2																		
3																		
4																		
5									.67									
6				.40				1.32	.95									
7	.40	.70	.85	.04	.75						.50	.65	.52	.62	.30	.30		
8	.10										.10		.24		.20			
9																		
10				.14	.80													
11													.06					
12	.10										.25				.05			
13																		
14																		
15																		
16																		
17																		
18																		
19				.43					.45									
20	.66	.61	4.52		2.62			2.00		.75	1.05	1.25	.14	.02	.05	.10		
21								2.00										
22																		
23		.66	.88													.21		
24			.05	.15	.90			2.50	1.20		.90		.75	.17	.05	.10		
25	.18		.02						.13				.02	.01	.02	.03		
26			.02										.01	.01				
27																		
28									.02									
29			.02											.02	.03	.02		
30																		
31																		
TOTAL	1.55	1.97	6.35	1.16	5.45			6.82	3.53	.75	2.80	4.90	1.82	.81	.75	1.37		

Form SCS-361

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by W.S.
Checked by W.M.M.
Final check by E.S.
Stations listed in each watershed by location North to South

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1

Tarkio River Watershed
May, 1937

MONTH OF May and June 1937

SHEET 7 OF 18 SHEETS

DATE \ STATION	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4* 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1				.32														
2		.75	.18	.20														
3		.30		.12		.83												
4	.06																	
5				1.43		.18												
6																		
7																		
8						.07												
9																		
10																		
11				.01														
12																		
13																		
14																		
15				.02														
16				.06														
17																		
18																		
19																		
20	.43	.99	.07	.58	.32													
21	.97		.65		.91													
22																		
23																		
24																		
25		.15		.14														
26	.48	.20	.37	.05	.44													
27																		
28																		
29					.20													
30		.04		.31		.05												
31																		
TOTAL	1.94	2.43	1.27	3.24	1.87	1.13												

*Recording gage

June, 1937

DATE \ STATION	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2			.12		.44													
3																		
4																		
5	.55		.41		.20													
6																		
7																		
8				.12														
9			.08			.08												
10																		
11																		
12																		
13	1.17		1.36	.01	.67													
14																		
15																		
16	2.97		1.05	.03	1.41													
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25	.12																	
26					.26													
27																		
28																		
29																		
30																		
31																		
TOTAL	4.81		3.02	.16	2.98	.08												

*Recording gage

Form SCS-381

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by W.S.
Checked by W.M.M.
Final check by E.S.
Stations listed in each watershed by location North to South

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO Iowa-1
MONTH OF May and June 19 37

West Tarkio Creek Watershed
May, 1937

SHEET 8 OF 18 SHEETS

STATION / DATE	NO. 6 7a.m.	NO. 6 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2	.72			.73		.36		.45		.48								
3			.04	.14	.29	.19		.25	.10	.13								
4			.06	.04	.07		.03	.03										
5																		
6	.45							.18										
7																		
8	.11							.04										
9																		
10		.06																
11			.05	.02														
12																		
13																		
14																		
15				.04		.02												
16				.03				.15		.10								
17																		
18																		
19																		
20	3.25		.06	.53		.54	.25	.75		.18								
21			.10		.72		.55		.73									
22																		
23																		
24																		
25	.16	1.41		.19		.13												
26			.64		.80	.23	.75	.13	.10									
27									.14									
28																		
29																		
30	.26			.72		.13		.20										
31									.12									
TOTAL	4.95	1.47	1.63	2.44	1.95	1.70	1.58	2.18	1.19	.89								

*Recording gage

June 1937

STATION / DATE	NO. 6 7a.m.	NO. 6 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1		.22								.40								
2			.33		.53		.15		.28									
3																		
4		.95																
5			.33				.50		.42									
6																		
7		.32																
8			.07							.05								
9										.05								
10					.57													
11																		
12		1.05																
13			.93		.88		1.15		.82									
14		.80																
15				.01						.07								
16			1.70		2.54		1.85		.45									
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25				.03		.24												
26					.04													
27																		
28																		
29																		
30																		
31																		
TOTAL		3.34	3.36	.04	4.56	.24	3.65		1.97	.57								

*Recording gage

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by W.S.
Checked by W.M.M.
Final check by E.S.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

Stations located in the proximity of Tarkio River and West Tarkio Creek Watershed

PROJECT NO Ia-1 SHEET 9 OF 18 SHEETS

MONTH OF May and June 19 37

May, 1937

STATION	NO. 11 Near		NO. 11 Westboro,		NO. 12 Missouri		NO. 13		NO. 14 Tarkio, Mo.		NO. 15 Near West-		NO. 17 Tarkio, Mo.		NO. 18 Shenandoah,		NO. 19 Red Oak, Ia.		NO.		NO.	
DATE	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.				
1				.02																		
2		.30	.25	.08										.30		.60		.50				
3	.10	.12	.22		Gage		Gage		.42				.20	.25		.05	.07	.04				
4	.04	.09	.26		Abandoned		Abandoned		.20					.15	.11							
5					after		after															
6					1st of		1st of									.01						
7					this		this															
8		.05	.05		month		month							.31				.20				
9									.10													
10																						
11	.06	.06	.02												.07			.09				
12			.01																			
13																						
14																						
15			.05																			
16		.14	.03																			
17															.07							
18																						
19			.23																			
20	.18	.16		.40					.38				.15		.02	.95		1.76				
21	.75								.70				.22		.55		1.00					
22																						
23																						
24																						
25	.11		.14	.03					.14	.10				.05		.05		.07				
26		1.70	.07							1.40	.10				.70	.06	.76					
27																						
28																						
29			.02																			
30			.02															.34				
31																						
TOTAL	1.24	2.62	1.37	.53					1.94	1.50	.67	1.06	1.52	1.72	1.83	3.00						

June, 1937

STATION	NO. 11 Near		NO. 11 Westboro,		NO. 12 Missouri		NO. 15 Tarkio, Mo.		NO. 17 Shenandoah		NO. 18 Red Oak, Ia.		NO.		NO.		NO.	
DATE	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.						
1		.10		1.04								.02						
2	.81						.58		.45		.22							
3																		
4				.34	.48													
5	.33						.35		.17		.11							
6																		
7																		
8		.09	.15	.12						.06	.30	.03						
9	.03		.03		.18		.25		.02									
10																		
11																		
12				.22			.35											
13	4.80								.65									
14					.03						1.22							
15		.65		.37						.10								
16					.30		.62		1.37		.45	.16						
17					.10													
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25				.49						.04								
26	.67				.50		.35											
27																		
28																		
29																		
30																		
31																		
TOTAL	6.64	.84	.18	2.58	2.94		2.50		2.66	.20	2.30	.21						

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by W.S.
Checked by W.M.M.
Final check by E.S.
Stations listed in each watershed by location North to South

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1

Tarkio River Watershed

SHEET 10 OF 18 SHEETS

MONTH OF July and August 1937

July, 1937

DATE \ STATION	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4* 7a.m.	NO. 4* 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11		.68		.01														
12	1.40		1.37	.02	.62													
13	.40		.46		.35													
14			.67		.36													
15																		
16			.03		.09													
17																		
18	.17			.01	.20													
19	1.93			1.69	1.47													
20				.01														
21																		
22																		
23																		
24	.28		.13	.07	.35													
25																		
26																		
27																		
28																		
29	.23																	
30		.02	1.48		.94													
31				.05														
TOTAL	4.41	.70	4.14	1.86	4.38													

*Recording gage

August, 1937

DATE \ STATION	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4* 7a.m.	NO. 4* 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2	.04		.03	.07	.18													
3																		
4																		
5																		
6																		
7																		
8	.20		.13		.13													
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19	.44		.54															
20	.52		.39	.01	.42													
21					.38													
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	1.20		1.69	.08	1.00													

*Recording gage

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

RECORD OF DAILY PRECIPITATION

Copied by W.S.
Checked by W.M.M.
Final check by E.S.
Stations listed in each watershed by location North to South

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO Ia-1 West Tarkio Creek Watershed SHEET 11

MONTH OF July and August 19 37 July, 1937 OF 18 SHEETS

STATION / DATE	NO. 6 7a.m.	NO. 6 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2									No record									
3									from July 1									
4									to July 10									
5																		
6																		
7																		
8																		
9																		
10																		
11	.29	.17		.14														
12		1.10	1.26		1.44		1.00	.20	.54	.01								
13		1.40	1.01		.41		.40		.28	.12								
14			.55		.55		.35		.04									
15																		
16			.02		.02		.10		.02									
17		1.08			.07													
18			.22				.08		.14	.58								
19		.05	1.86		1.62		1.25		.49									
20																		
21																		
22																		
23		.23	.18	.12														
24					.20		.15		.18	.03								
25																		
26																		
27				.03														
28																		
29		.18								.03								
30			.23		1.13		1.65		1.33									
31				.03														
TOTAL	.29	4.21	5.33	.32	3.74		4.98	.20	3.02	.77								

*Recording gage

August, 1937

STATION / DATE	NO. 6 7a.m.	NO. 6 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1		.04																
2			.04		.13		.12		.14									
3																		
4																		
5																		
6																		
7		.60																
8			.14		.26		.23		.18									
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18		.40																
19		.13	.53				.30		.97									
20	.12		.27				1.20		.61	.03								
21																		
22																		
23					.71													
24																		
25					.69													
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	.12	1.22	1.23		1.79		2.35		1.90	.03								

*Recording gage

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by W.S.
Checked by W.M.M.
Final check by E.S.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1

Stations located in the proximity of Tarkio River and West Tarkio Creek Watersheds

SHEET 12 OF 18 SHEETS

MONTH OF July and August 1937

July, 1937

STATION / DATE	NO. 11 Near Westboro, Missouri 7a.m.	NO. 11 7p.m.	NO. 12 7a.m.	NO. 12 7p.m.	NO. 15 7a.m.	NO. 15 7p.m.	NO. 17 Tarkio, Mo. 7a.m.	NO. 17 7p.m.	NO. 18 Shenandoah, 7a.m.	NO. 18 7p.m.	NO. 19 Red Oak, Ia. 7a.m.	NO. 19 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11				2.45								.73						
12	1.50		.23	.73	2.70		4.80		2.20									
13	.33			.11	.40		1.51		.83		.22							
14	.24				.43		.37		.24		.72							
15				.52														
16	.20				.80		.15		.09		.02							
17																		
18		.92		.76					.32		.32							
19					.35		.70		.26		1.30							
20																		
21																		
22																		
23																		
24	.96		.32		1.10		.61		.12		.17							
25																		
26																		
27			.03															
28																		
29				3.42														
30	3.00				3.40		2.25		.73		.19							
31										.03								
TOTAL	6.23	.92	1.08	7.99	9.68		10.39		5.54	.03	3.44	.73						

August, 1937

STATION / DATE	NO. 11 Near Westboro, Missouri 7a.m.	NO. 11 7p.m.	NO. 12 7a.m.	NO. 12 7p.m.	NO. 15 7a.m.	NO. 15 7p.m.	NO. 17 Tarkio, Mo. 7a.m.	NO. 17 7p.m.	NO. 18 Shenandoah, 7a.m.	NO. 18 7p.m.	NO. 19 Red Oak, Ia. 7a.m.	NO. 19 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2	.34		.08		.13		.10		.14		.21							
3																		
4																		
5																		
6																		
7		.06		.14	.22													
8									.36		.19							
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18				1.19														
19	.77			.35	1.13		1.80		.88		.32							
20	.54				.52		.45		.34		.06	.25						
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	1.65	.06	.08	1.68	2.05		2.35		1.72		.78	.25						

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by W.S.
Checked by W.M.M.
Final check by E.S.
Stations listed in each water... by location North to South

NAME West Taricio Cr. Demonstration ~~Project~~ LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 Taricio River Watershed SHEET 13
MONTH OF Sept. & October 1937 September, 1937 OF ____ SHEETS

STATION / DATE	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4* 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23		.34		.34		.14												
24	.37		.27		.24													
25																		
26																		
27			.02															
28	.20		.19		.32													
29																		
30																		
31																		
TOTAL	.57	.34	.48	.34	.56	.14												

*Recording gage

October, 1937

STATION / DATE	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8		.25		.08														
9			.18		.30													
10																		
11																		
12		.05		.02														
13																		
14																		
15				.03														
16		.31	.13	.12	.27													
17			.61		.55													
18		.32			.10													
19			.20	.05	.15													
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL		1.43	1.12	.30	1.37													

*Recording gage

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by W.S.
Checked by W.M.M.
Final check by E.S.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 West Tarkio Creek Watershed SHEET 14

MONTH OF Sept. and Oct. 19 37 September, 1937 OF 18 SHEETS

STATION	NO. 22*	NO. 22	NO. 6	NO. 6	NO. 20*	NO. 20	NO. 7	NO. 7	NO. 16*	NO. 16	NO. 10	NO. 10	NO. 9	NO. 9	NO. 21*	NO. 21	NO. 23*	NO. 23
DATE	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.
1																		
2																		
3																		
4									No record				.05					
5									for this									
6									month									
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23			.50	.45				.77				.38		.12				
24							.50				.32		.26					
25																		
26																		
27																		
28							.22				.23		.37					
29																		
30																		
1																		
TOTAL			.50	.45			.72	.77			.55	.38	.68	.12				

*Recording gage

October, 1937

STATION	NO. 22*	NO. 22	NO. 6	NO. 6	NO. 20*	NO. 20	NO. 7	NO. 7	NO. 16*	NO. 16	NO. 10	NO. 10	NO. 9	NO. 9	NO. 21*	NO. 21	NO. 23*	NO. 23
DATE	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.
1																		
2																		
3																		
4				.36														
5																		
6																		
7																		
8			.24					.08			.33		.37					
9							.14											
10																		
11														.08				
12								.08										
13																		
14																		
15			.24					.03										
16	Recorder		.37		Recorder		.46		Recorder			.20			Recorder		Recorder	
17	established				established			.16	established		.60				established		established	
18	on 28th		.23		on 27th				on 26th						on 27th		on 27th	
19							.22				.25							
20																		
21																		
22																		
23																		
24													Recorder not					
25													operating					
26													Oct. 24, 1937					
27													- Feb. 2, 1938					
28																		
29																		
30																		
1																		
TOTAL			1.08	.36			.82	.35			1.13	.20	.37	.08				

*Recording gages

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by: W.S.
Checked by: W.M.M.
Final check by: E.S.

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO Ia-1

Stations located in the proximity of Tarkio River and West Tarkio Creek Watershed

SHEET 15 OF 18 SHEETS

MONTH OF Sept. and Oct. 19 37

September, 1937

DATE \ STATION	NO. 11 Near Westboro, Missouri 7a.m.	NO. 11 7p.m.	NO. 12 Westboro, Missouri 7a.m.	NO. 12 7p.m.	NO. 15 Tarkio, Mo. 7a.m.	NO. 15 7p.m.	NO. 17 Tarkio, Mo. 7a.m.	NO. 17 7p.m.	NO. 18 Shenandoah, Ia. 7a.m.	NO. 18 7p.m.	NO. 19 Red Oak, Ia. 7a.m.	NO. 19 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4	.09																	
5																		
6							No record											
7							for this											
8			.02				month		.13									
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21					.06													
22	.15		.12															
23	.15		.16	.14	.42				.89			1.16						
24	.28								.29		.26							
25																		
26				.03														
27				.14	.15													
28	.27								.22		.14							
29																		
30																		
31																		
TOTAL	.94		.30	.31	.63				1.53		.40	1.16						

October, 1937

DATE \ STATION	NO. 11 Near Westboro, Missouri 7a.m.	NO. 11 7p.m.	NO. 12 Westboro, Missouri 7a.m.	NO. 12 7p.m.	NO. 15 Tarkio, Mo. 7a.m.	NO. 15 7p.m.	NO. 17 Tarkio, Mo. 7a.m.	NO. 17 7p.m.	NO. 18 Shenandoah, Ia. 7a.m.	NO. 18 7p.m.	NO. 19 Red Oak, Ia. 7a.m.	NO. 19 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8		.25	.25	.18						.13		.10						
9	.20				.38		.40		.20		.14							
10																		
11																		
12			.04				.05			.04		.14						
13																		
14																		
15				.07														
16	.20	.12	.25	.30	.20			.30		.17	.27	.10						
17	.45	.03	.02		.70		.35		.43		.20							
18				.16														
19	.17		.11				.15		.19	.02	.21	.03						
20					.10													
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	1.02	.40	.67	.71	1.38		.95	.30	.62	.36	.82	.37						

Form SCS-381

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by W.S.
Checked by W.M.M.
Final check by E.S.
Stations listed in each watershed by location North to South

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1

Tarkio River Watershed
November, 1937

MONTH OF Nov. and Dec. 1937

SHEET 16 OF 18 SHEETS

STATION / DATE	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1					.03													
2																		
3																		
4				.04														
5																		
6																		
7																		
8	.45		.18		.18													
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18			.15															
19					.10													
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27	.35		.22															
28					.16													
29																		
30																		
31																		
TOTAL	.80		.55	.04	.47													

*Recording gage

December, 1937

STATION / DATE	NO. 3 7a.m.	NO. 3 7p.m.	NO 4 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1			.06		.06													
2																		
3				.02														
4																		
5																		
6																		
7			.01		.04													
8																		
9																		
10																		
11																		
12																		
13																		
14			.06	.11	.06													
15					.03													
16																		
17																		
18																		
19			.06															
20																		
21																		
22																		
23																		
24			.02															
25																		
26																		
27			.01															
28																		
29																		
30																		
31																		
TOTAL			.22	.13	.19													

*Recording gage

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

Copied by W.S.
Checked by W.M.M.
Final check by E.S.
Stations listed in each watershed by location North to South

PROJECT NO. Ia-1

MONTH OF November & December 1937

West Tarkio Creek Watershed
November, 1937

SHEET 17 OF 18 SHEETS

STATION	NO. 22*	NO. 22	NO. 6*	NO. 6	NO. 20*	NO. 20	NO. 7*	NO. 7	NO. 16*	NO. 16	NO. 10*	NO. 10	NO. 9*	NO. 9	NO. 21*	NO. 21	NO. 23*	NO. 23
DATE	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.
1	.02	.19	.16		.03	.07									clock		.10	
2															stopped			
3						.01							No record		Nov. 3 to			
4					.05	.04		.01		.04		.13	for this		Nov. 9			
5					.02								month		Total prec.			
6															for this			
7				.26											period		.06	
8	.32				.18		.44		.42		.21				reported		.09	
9															here	.38		
10					.02	.06												
11					.07													
12																		
13																		
14																		
15																		
16																		
17			.21															
18							.12	.03				.17						
19																		
20																		
21																		
22										.08								
23																		
24																		
25																		
26			.17															.02
27	.02				.04		.10	.01	.04		.30				.02	.08	.08	
28		.20				.08				.09								.07
29							.01											
30																		
31																		
TOTAL	.36	.39	.54	.26	.41	.26	.67	.05	.46	.21	.51	.30			.02	.46	.33	.09

*Recording gages

December, 1937

STATION	NO. 22*	NO. 22	NO. 6*	NO. 6	NO. 20*	NO. 20	NO. 7*	NO. 7	NO. 16*	NO. 16	NO. 10*	NO. 10	NO. 9*	NO. 9	NO. 21*	NO. 21	NO. 23*	NO. 23
DATE	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.
1							.01											
2																		
3																		
4													No record					
5																		
6			.06										for this					
7											.06							
8													month					
9																		
10																		
11																		
12																		
13																		
14			.46					.10			.23					.20	.03	
15		.02				.07	.06			.09								.15
16		.07				.06												.05
17		.01			.02	.07				.04								
18			.14			.04		.02	.06	.02								.02
19	.05				.02		.05		.03	.02	.05						.05	
20										.07								
21															.05			
22								.02										
23							.04		.02								.07	
24											.15							
25		.02																
26		.02	.06					.03										
27					.02													
28																		
29																		
30																		
31																		
TOTAL	.05	.16	.72		.07	.24	.16	.16	.11	.24	.49				.05	.20	.15	.22

*Recording gages

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by W.S.
Checked by W.M.M.
Final check by E.S.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO Ia-1

Stations located in the proximity of Tarkio River and West Tarkio Creek Watersheds

SHEET 18 OF 18 SHEETS

MONTH OF Nov. and Dec. Ia 37

November, 1937

DATE	NO. 11 Near Westboro, 7a.m.	NO. 11 7p.m.	NO. 12 7a.m.	NO. 12 7p.m.	NO. 15 Missouri 7a.m.	NO. 15 7p.m.	NO. 17 Tarkio, Mo. 7a.m.	NO. 17 7p.m.	NO. 18 Shenandoah, Ia. 7a.m.	NO. 18 7p.m.	NO. 19 Red Oak, Ia. 7a.m.	NO. 19 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.
1	.03							.12				.25						
2																		
3																		
4	.02		.02					.18		.14								
5																		
6																		
7				.18					.43									
8	.18				.08						.11							
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17				.07														
18	.08		.02					.12			.10	.05						
19					.05					.10								
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27	.14		.24		.10			.20		.09	.12							
28																		
29																		
30																		
31																		
TOTAL	.45		.28	.25	.23			.62	.43	.33	.33	.30						

December, 1937

DATE	NO. 11 Near Westboro, 7a.m.	NO. 11 7p.m.	NO. 12 7a.m.	NO. 12 7p.m.	NO. 15 Missouri 7a.m.	NO. 15 7p.m.	NO. 17 Tarkio, Mo. 7a.m.	NO. 17 7p.m.	NO. 18 Shenandoah, Ia. 7a.m.	NO. 18 7p.m.	NO. 19 Red Oak, Ia. 7a.m.	NO. 19 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.
1									.02									
2																		
3																		
4																		
5																		
6				.03														
7									.01		.05							
8																		
9																		
10																		
11																		
12				.01														
13				.09														
14				.09					.04									
15					.30		.20											
16		.12																
17																		
18			.05															
19			.01															
20																		
21																		
22																		
23		.08		.03														
24							.15											
25											.08							
26		.04	.02															
27									.12									
28																		
29																		
30																		
31																		
TOTAL		.24	.08	.25	.30		.35		.19		.13							

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by: W.S.
Checked by: W.M.M.
Final check by: E.S.
Stations listed in each watershed by location North to South

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1
MONTH OF January & February Ia 38

Tarkio River Watershed
January, 1938

SHEET 1 OF 24 SHEETS

DATE \ STATION	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4* 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17						.08												
18			.08															
19	.10				.06													
20			.06		.04	.02												
21																		
22																		
23				.01														
24																		
25																		
26																		
27																		
28																		
29																		
30			.02															
31						.05												
TOTAL	.10		.16	.01	.10	.15												

*Recording gage

February, 1938

DATE \ STATION	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15				.03														
16			.23	.15	.33													
17	.49				.10													
18																		
19																		
20																		
21																		
22	.15		.14		.14													
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	.64		.37	.23	.62													

*Recording gage

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by: W.S.
Checked by: W.M.M.
Final check by: E.S.
Stations listed in each watershed by location North to South

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO Ia-1 SHEET 2 OF 24 SHEETS

MONTH OF January & February 19 38

West Tarkio Creek Watershed
January, 1938

STATION	NO. 22*	NO. 22	NO. 6	NO. 6	NO. 20*	NO. 20	NO. 7	NO. 7	NO. 16*	NO. 16	NO. 10	NO. 10	NO. 9*	NO. 9	NO. 21*	NO. 21	NO. 23*	NO. 23
DATE	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.
1																		
2																		
3																		
4																		
5													No record					
6																		
7													for this					
8																		
9													month					
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17			.35															
18			.05					.10				.04						
19		.04				.02	.07			.05								.06
20		.10				.13				.09						.08	.01	.10
21																		
22		.01																.01
23																		.01
24																		
25															.05	.02		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL		.15	.40			.15	.07	.10		.14		.04			.05	.10	.01	.18

*Recording gages

February, 1938

STATION	NO. 22*	NO. 22	NO. 6	NO. 6	NO. 20*	NO. 20	NO. 7	NO. 7	NO. 16*	NO. 16	NO. 10	NO. 10	NO. 9*	NO. 9	NO. 21*	NO. 21	NO. 23*	NO. 23
DATE	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.
1																		
2		.01						.01										
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15			.10					.06				.40						
16			.12		.11		.08	.04	.10		.25				.13	.03	.23	.08
17					.04		.06		.03						.04		.02	
18																		
19		.21								.01								
20		.04																
21			.25															
22		.08			.07		.15		.09		.40				.09		.10	
23																		
24						.02												
25				.03	.02	.01								.07				
26																		
27																		
28																		
29																		
30																		
TOTAL		.34	.47	.03	.24	.03	.29	.11	.12	.01	.65	.40		.07	.26	.03	.35	.08

*Recording gages

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by: W.S.
Checked by: W.M.M.
Final check by: E.S.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1

Stations located in the proximity of Tarkio River and West Tarkio Creek Watersheds

SHEET 3 OF 24 SHEETS

MONTH OF January & February 19 38

January, 1938

STATION / DATE	NO. 11 Near Westboro, 7a.m.	NO. 11 7p.m.	NO. 12 7a.m.	NO. 12 7p.m.	NO. 15 Missouri 7a.m.	NO. 15 7p.m.	NO. 17 Tarkio, Mo. 7a.m.	NO. 17 7p.m.	NO. 18 Shenandoah, Ia. 7a.m.	NO. 18 7p.m.	NO. 19 Red Oak, Ia. 7a.m.	NO. 19 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18	.05		.02							.09		.13						
19	.10			.10														
20					.15		.21											
21																		
22																		
23			.02															
24																		
25																		
26																		
27																		
28																		
29																		
30				.03			.10		.02		.16							
31																		
TOTAL	.15		.04	.13	.15		.31		.02	.09	.16	.13						

February, 1938

STATION / DATE	NO. 11 Near Westboro, 7a.m.	NO. 11 7p.m.	NO. 12 7a.m.	NO. 12 7p.m.	NO. 15 Missouri 7a.m.	NO. 15 7p.m.	NO. 17 Tarkio, Mo. 7a.m.	NO. 17 7p.m.	NO. 18 Shenandoah, Ia. 7a.m.	NO. 18 7p.m.	NO. 19 Red Oak, Ia. 7a.m.	NO. 19 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15		.10	.08	.16														
16		.11	.04	.10				.39	.25		.20							
17				.01	.70				.08		.10							
18									.02									
19																		
20																		
21			.09															
22								.18			.08							
23																		
24					.08													
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL		.21	.21	.27	.78			.57	.35		.38							

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by: W.S.
Checked by: W.M.M.
Final check by: E.S.
Stations listed in each watershed by location North to South

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 SHEET 4 OF 24 SHEETS

MONTH OF March and April * to 38

Tarkio River Watershed
March, 1938

DATE \ STATION	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO. Daily Totals	NO.	NO. Daily Average	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9	.05	.30	.14	.47	.53			1.49		.50								
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18				.01				.01										
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28		.10		.14				.24		.08								
29	.14	.11			.29			.54		.18								
30			.14	.02		.30		.46		.15								
31																		
TOTAL	.19	.51	.28	.64	.82	.30		2.74		.91								

*Recording gage

April, 1938

DATE \ STATION	NO. 3 7a.m.	NO. 3 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO.	NO. Daily Totals	NO.	NO. Daily Average	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5		.25		.28				.53		.18								
6	.74	.13	.56	.16	1.15			2.74		.91								
7	.07		.02	.02				.11		.04								
8					.07			.07		.02								
9																		
10																		
11																		
12																		
13																		
14																		
15	.51	.93	.39	.52	.49			2.84		.95								
16	.48	.22	.43	.20	.97			2.30		.77								
17		.12			.25			.37		.12								
18			.10		.09			.19		.06								
19																		
20																		
21		.04		.04				.08		.03								
22																		
23																		
24	.02		.01		.15			.18		.06								
25																		
26																		
27	.07	.07	.09	.12				.35		.12								
28																		
29					.16			.16		.05								
30																		
31																		
TOTAL	1.29	1.76	1.60	1.34	3.33	0.00		9.92		3.31								

*Recording gage

Form SCS-331

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by: W.S.
Copying checked by: W.T.W.
Computed by: T.M.
Checked by: W.M.M.
Final check by: W.M.M.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO Ia-1 West Tarkio Creek Watershed SHEET 5

MONTH OF March and April 1938 March, 1938 OF 24 SHEETS

STATION / DATE	NO. 22 7a.m.	NO. 22 7p.m.	NO. 6 7a.m.	NO. 6 7p.m.	NO.20 7a.m.	NO.20 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO.16 7a.m.	NO.16 7p.m.	NO.10 7a.m.	NO.10 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.	NO.21 7a.m.	NO.21 7p.m.	NO.23 7a.m.	NO.23 7p.m.	Daily Aver.
1																			
2																			
3																			
4									.03	.01							.03	.02	.01
5																			
6																			
7																			
8										.01									
9		.28	.60		.10	.32	.23	.46	.11	.43		.55	.18	.36	.28	.36	.36	.44	.56
10																			
11																			
12																			
13																			
14				1.00															.11
15		.16					.04	.02			.05	.03		.05		.02			.04
16		.02			.01												.02		.01
17																			
18																			
19																			
20																			
21																			
22	.04																.02		.01
23					.02				.03								.02		.01
24																			
25																			
26																			
27																			
28		.08	.18			.20		.16		.10		.17				.24		.20	.15
29	.02			.30	.02		.05		.01		.10			.03	.05		.06		.08
30	.02	.21			.20	[illegible]	.08	.24	.09	.13		.30		.16	.13		.10		.19
31																			
TOTAL	.08	.75	.78	1.30	.35	.60	.40	.88	.27	.68	.15	1.05	.18	.65	.47	.62	.61	.66	1.16

NOTE: Stations listed in each watershed by location North to South.

*Recording gage

April, 1938

STATION / DATE	NO. 22 7a.m.	NO. 22 7p.m.	NO. 6 7a.m.	NO. 6 7p.m.	NO. 20 7a.m.	NO. 20 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO.16 7a.m.	NO.16 7p.m.	NO.10 7a.m.	NO.10 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.	NO.21 7a.m.	NO.21 7p.m.	NO.23 7a.m.	NO.23 7p.m.	Daily Ave.
1																			
2																			
3																			
4																			
5		.22	1.21			.23		.27		.21		.27		.27		.29		.30	.36
6	.72	.06	.08		.68	.02	.48	.15	.39	.13	.30		.53	.29	.27	.20	.23	.25	.53
7								.05				.20							.03
8		.30				.03													.04
9																			
10																			
11																			
12																			
13																			
14				.33															.04
15	.34	.62	.75	.45	.45	.79	.43	[illegible]	.43	.55	.45	.30	[illegible]	.50	.42	.44	.40	.52	1.01
16	.52	.16			.51	.11	.35	[illegible]	.30	.30	.90	.25	[illegible]	.15	.44	.10	.19	.29	.59
17								.03	.03	.30		.18		.12		.04			.09
18															.03				
19																			
20														.06					.01
21		.04	.12			.02		.06		.04		.06		.05					.04
22														.03					
23					.08														.01
24							.02						.04		.10		.06		.02
25																			
26																			
27	.09	.24	.63		.02	.50	.05	.43	.05	.35	.10	.30	.11	.09	.10		.08		.34
28	.02						[illegible]		.05										[illegible]
29														[illegible]					.01
30																			
31																			
TOTAL	1.69	1.66	2.84	.83	1.74	1.75	1.37	2.06	1.25	1.68	1.75	1.54	1.58	1.71	1.36	1.07	.93	1.15	3.14

*Recording gages

#Date of rain estimated

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by: W.S.
Copying checked by: W.T.W.
Computed by: T.M.
Checked by: W.M.M.
Final check by: W.M.M.

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

Stations located in the proximity of Tarkio River and West Tarkio Creek Watersheds

PROJECT NO. Ia-1 SHEET 6

MONTH OF March and April 1938 OF 24 SHEETS

March, 1938

DATE	NO. 11 Near 7a.m.	NO. 11 7p.m.	NO. 12 Westboro, 7a.m.	NO. 12 7p.m.	NO. 15 Missouri 7a.m.	NO. 15 7p.m.	NO. 17 Tarkio, Mo. 7a.m.	NO. 17 7p.m.	NO. 18 Shenandoah, 7a.m.	NO. 18 7p.m.	NO. 19 Red Oak, Ia. 7a.m.	NO. 19 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2			.01															
3																		
4																		
5																		
6																		
7																		
8				.30							.10	.30						
9	.31	.23	.54		.35		.45	.65	.14	.48								
10	.03				.49													
11																		
12																		
13																		
14				.04	.02													
15									.02	.08		.10						
16							.15		.02		.04							
17																		
18		.03	.02							.02								
19																		
20																		
21																		
22				.01							.04							
23	.01								.02									
24																		
25																		
26																		
27																		
28		.10		.16				.15		.15		.01						
29	.05			.25	.22				.08									
30	.25		.34		.12		.75	.25	.10	.02	.15							
31																		
TOTAL	.65	.36	.91	.76	1.20		1.35	1.05	.38	.75	.33	.41						

April, 1938

DATE	NO. 11 Near 7a.m.	NO. 11 7p.m.	NO. 12 Westboro, 7a.m.	NO. 12 7p.m.	NO. 15 Missouri 7a.m.	NO. 15 7p.m.	NO. 17 Tarkio, Mo. 7a.m.	NO. 17 7p.m.	NO. 18 Shenandoah, 7a.m.	NO. 18 7p.m.	NO. 19 Red Oak, Ia. 7a.m.	NO. 19 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5		.24	.35	.18				.23		.43		.24						
6	.22	.18	.52	.10	.30		.21		.48	.16	.84	.14						
7			.31		.15		.10			.10	.20							
8	.04																	
9																		
10																		
11																		
12																		
13																		
14				.22			.25	.25										
15	.31	.22	.50	.34	.40		.62		.36	.13	.27	.25						
16	.40	.20	.16		.73		.05	.05	.52	.15	1.04	.10						
17		.10	.01		.10													
18					.01				.13									
19																		
20																		
21	.05								.02									
22			.05															
23		.06		.03					.05									
24					.10				.04									
25												.06						
26				.09														
27	.14	.31			.05		.15		.08		.08	.18						
28									.05		.[illegible]							
29		.24																
30																		
31																		
TOTAL	1.16	1.75	1.90	.98	2.39		1.38	.53	1.73	1.00	2.[illegible]	1.[illegible]						

Form [illegible]

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by: T.M.
Checked by: W.T.
Computed by: T.M.
Checked by: W.M.M.
Final check by: W.M.M.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 Tarkio River Watershed SHEET 7

MONTH OF May and June 1938 May, 1938 OF 24 SHEETS

DATE \ STATION	NO. 1 7a.m.	NO. 1 7p.m.	NO. 25 7a.m.	NO. 25 7p.m.	NO. 26 7a.m.	NO. 26 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 27 7a.m.	NO. 27 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 24 7a.m.	NO. 24 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO. Daily Total	NO. Daily Average
1																		0
2							.12				.01						.13	.04
3	[illegible]		[illegible]	[illegible]				.11			.05						.16	.05
4	[illegible]		[illegible]	[illegible]			.08	.04			.03	1.03			1.14	1.36	6.07	2.02
5	[illegible]						.04				.18						.42	.14
6																		0
7							.75	.04			.70	.12			.61		2.22	.74
8							.03								.04		.12	.04
9											.03				.05		.08	.03
10																		0
11																		
12											.04						.04	.01
13								.18				.21					.39	.13
14																		0
15																		0
16								.04				.08					.12	.04
17							.53	.05			.51	.04			.82		1.95	.65
18																		0
19							.27				.29					.40	.96	.32
20							.01				.17				.12		.30	.10
21	(Gage Pa-ca-tu-lished)		(Gage installed)		(Gage installed)		.03		(Gage installed)		.03		(Gage installed)		.05		.11	.04
22																		0
23																		0
24																		0
25	[illegible]									.17		.04		.28		.12	.62	.08
26				.06		.21											.27	.03
27									.03		.03		.02				.08	.01
28																		0
29																		0
30																		0
31			[illegible]	1.[illegible]	[illegible]	1.[illegible]	[illegible]	1.[illegible]	.46	1.02	.28	.64	.57	.79		1.27	10.07	1.37
TOTAL	.[illegible]		[illegible]	1.75	.20	1.[illegible]	4.36	2.[illegible]	.[illegible]	1.19	3.27	2.16	.59	1.07	2.53	3.15	25.61	6.04

Continuing June 1938

DATE \ STATION	NO. 1 7a.m.	NO. 1 7p.m.	NO. 25 7a.m.	NO. 25 7p.m.	NO. 26 7a.m.	NO. 26 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 27 7a.m.	NO. 27 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 24 7a.m.	NO. 24 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO. Daily Total	NO. Daily Average
1		.[illegible]		[illegible]		.42		.42						.15			[illegible]	.17
2																		
3		.[illegible]		[illegible]		.08				.06		.13		.11	.14		.77	.10
4																		
5																		
6											.01						.01	
7																		
8																		
9																		
10			[illegible]				[illegible]		[illegible]		[illegible]		.74		.85		2.72	.[illegible]
11	[illegible]		[illegible]				.37		2.20		.72		.61		.93		7.[illegible]	.[illegible]
12																		
13																		
14	[illegible]			[illegible]	[illegible]	.09	[illegible]		[illegible]	.10	.12		.05	.24	.20		1.[illegible]	.35
15	[illegible]				[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	.11	2.[illegible]	[illegible]
16			[illegible]					.11				.01		.19			[illegible]	.11
17																		
18																		
19																		
20																		
21																		
22																		
23											.03	[illegible]					.05	.01
24																		
25					[illegible]				[illegible]					[illegible]	.13		[illegible]	[illegible]
26	[illegible]				[illegible]				.30								[illegible]	.13
27																		
28																		
29																		
30																		
TOTAL	2.[illegible]	.32	1.[illegible]	[illegible]	2.[illegible]	.17	1.40	.57	2.82	[illegible]	1.[illegible]	.36	1.[illegible]	.78	2.33	.11	13.[illegible]	2.[illegible]

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by: T.M.
Checked by: W.T.W.
Compared by: T.M.
Checked by: W.M.M.
Final check by: W.M.M.

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 West Tarkio Creek Watershed SHEET 8 OF 24 SHEETS

MONTH OF May and June 1938 May, 1938

STATION / DATE	NO22 7a.m.	NO22 7p.m.	NO. 6 7a.m.	NO. 6 7p.m.	NO.20 7a.m.	NO.20 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO.16 7a.m.	NO.16 7p.m.	NO.10 7a.m.	NO.10 7p.m.	NO.9 7a.m.	NO.9 7p.m.	NO.21 7a.m.	NO.21 7p.m.	NO.23 7a.m.	NO.23 7p.m.	Daily Average
1		.09		.32															
2	.13				.19		.18		.11		.11							.02	.05
3		.23	.21	1.60		.38		.17						.03					.03
4	.62	1.27			#.03	#.89	.93	.90	.82	.85	.95	.90	#.91	#.99	.92	.88	#1.01	#.96	.30
5		.01					.23												1.04
6				.90															.01
7	.38	.47	.13		#.63		.82	.05	.77				#.74		.62		#.23	#.38	.11
8	.05	.06									.80	.08					#.07		.33
9	.02				#.08	#.02			.03				#.13		.23		#.20		.12
10		.01																	.08
11																			
12																			
13		.16	.25			.28		.16		.25		.40	.08		.33		.42		.11
14														.22		.27		.22	.25
15																			
16		.04	.40			.14		.11		.10				.02		.08		.05	.10
17	.22	.01			.34				.39	.02	.70		.61	.03	.57	.65	.73	.04	.41
18				.23															.03
19	.14	.03		.59	.20		.29		.24		.37		.31	.02	.20		.31		.31
20	.23	.02		.05	.24	.06	.22		.16				.13		.13		.02	.07	.17
21							.03						.04		.03	.02		.02	.02
22																			
23																			
24																			
25						.02				.05		.33	.01	.02		.20		.29	.18
26		.24		.85		.06													.13
27											.05		.01				.10		.02
28																			
29																			
30				.32												.10			
31	.14	.02	.88		.27	1.01	.24	.13	.23	.23		.62	.67	.70	.52		.26		.05
TOTAL	1.95	2.59	1.87	4.86	2.88	2.92	2.89	2.17	2.80	1.35	2.98	2.33	3.44	2.20	3.77	1.69	4.02	2.08	5.46

*Recording gage

June, 1938

#Date of rain estimated

STATION / DATE	NO. 22 7a.m.	NO. 22 7p.m.	NO. 6 7a.m.	NO. 6 7p.m.	NO. 20 7a.m.	NO. 20 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO.16 7a.m.	NO.16 7p.m.	NO.10 7a.m.	NO.10 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.	NO.21 7a.m.	NO. 21 7p.m.	NO.23 7a.m.	NO.23 7p.m.	Daily Aver.
1		.45	.86			.21		.08				.03		.05		.14			.20
2			.62	.06										.02					.08
3						.02								.11				.09	.02
4																			
5														.01					
6													.02	.01				.02	.01
7															.05				.01
8																			
9				.21													.04		.03
10	.09	.03		1.77	.20	.02	.24		.22		.25		.08	.01					.33
11	1.40	.02			1.22		.64		.66		1.40		1.52		3.02		3.00	.34	1.47
12																			
13				.17															
14	.08	.40	.45		.07	.27	.03	.32	.05	.20	.10		.22	.01	.10	.02	.12	.18	.03
15	.27	.02			.15		.10		.20		.52		.27		.02		.01		.48
16						.02	.12			.19		.22		.51		.02		.10	.23
17						.04													.34
18																			
19																			
20																			
21																			
22															.10				.01
23													.10	.03				.02	.02
24						.05							.02						
25				.20	.02		.21												.01
26	.19	.12				.45	.05			#.16			.03	.01	.24		.11		.09
27													.02						.11
28																			
29						.22									.02				.01
30																			
31																			
TOTAL	1.03	1.24	1.07	2.31	1.73	1.28	1.43	.40	1.31	.35	2.27	.25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

*Recording gages

#Time of precipitation estimated.

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

RECORD OF DAILY PRECIPITATION

Copied by: T.M.
Checked by: W.T.W.
Computed by: T.M.
Checked by: W.M.M.
Final check by: W.M.M.

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1

Stations located in the proximity of Tarkio River and West Tarkio Creek Watersheds

MONTH OF May and June 1938 May, 1938

SHEET 9 OF 24 SHEETS

DATE \ STATION	NO. 11 Near 7a.m.	NO. 11 Near 7p.m.	NO. 12 Westboro 7a.m.	NO. 12 Westboro 7p.m.	NO. 15 Missouri 7a.m.	NO. 15 Missouri 7p.m.	NO. 17 Tarkio, Mo. 7a.m.	NO. 17 Tarkio, Mo. 7p.m.	NO. 18 Shenandoah, 7a.m.	NO. 18 Shenandoah, 7p.m.	NO. 19 Red Oak, Ia. 7a.m.	NO. 19 Red Oak, Ia. 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.
1				.01														
2									.03		.20							
3			.04	[illegible]								.12						
4	1.00	1.03	1.32	.06	1.05		.93	1.12	.09	1.11	.79	1.44						
5	.07				1.10		.30											
6			.04	.70								.86						
7	.62	.07	.10		.68		.75		.89		.10	.09						
8	.03			.18	.10				.06									
9	.26				.20		.22		.05									
10																		
11				.29														
12	.33		.04		.47		.32		.04									
13		.29	.28					.23	.22			.20						
14					.25		.07				.03							
15																		
16			.03	.84			.81			.02		.09						
17	.63	.16	.09		.53	.15			.47	.02	.27							
18				.38	.58		.55											
19	.39			.05						.24	.23							
20	.33			.06	.11				.09		.29							
21	.08				.07		.10		.05		.04							
22																		
23																		
24				.03														
25		.69	.41	.02		.28	1.25		.02	.06								
26			.02	.08								.80						
27	.02				.10						.10							
28																		
29																		
30					.22													
31	.33	.10	1.03				.55	.50	.87		.13	.02						
TOTAL	4.14	2.24	3.40	3.58	5.80	.43	5.90	1.85	2.93	1.45	2.18	3.62						

June, 1938

DATE \ STATION	NO. 11 Near 7a.m.	NO. 11 Near 7p.m.	NO. 12 Westboro 7a.m.	NO. 12 Westboro 7p.m.	NO. 15 Missouri 7a.m.	NO. 15 Missouri 7p.m.	NO. 17 Tarkio, Mo. 7a.m.	NO. 17 Tarkio, Mo. 7p.m.	NO. 18 Shenandoah, 7a.m.	NO. 18 Shenandoah, 7p.m.	NO. 19 Red Oak, Ia. 7a.m.	NO. 19 Red Oak, Ia. 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.
1		.15	.10							.11		.20						
2																		
3	.12		.06							.03		.05						
4						.13												
5																		
6	.02		.03															
7																		
8																		
9				.20														
10	.20			1.62			.35		.52		.73							
11	2.12				3.00		2.06		.83		2.60							
12																		
13				.13														
14	.14	.58	.31	.09		.80					.34							
15	.03				.17		.45		.30		.55							
16	.76	.03	.66						.10	.26								
17						.11												
18																		
19																		
20																		
21																		
22			.08															
23					.05													
24				.04														
25	.09								.22									
26	.02		.24		.12				.07		.28							
27																		
28																		
29																		
30																		
31																		
TOTAL	3.55	.82	.75	1.68	3.33	1.04	2.86		2.00	.40	4.55	.25						

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by: T.M.
Checked by: W.T.M.
Computed by: T.M.
Checked by: W.M.M.
Final check by: W.M.M.

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 Tarkio River Watershed SHEET 10 OF 24 SHEETS

MONTH OF July and August 1938 July, 1938 *

STATION / DATE	NO. 1 7a.m.	NO. 1 7p.m.	NO. 25 7a.m.	NO. 25 7p.m.	NO. 26 7a.m.	NO. 26 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 27 7a.m.	NO. 27 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 24 7a.m.	NO. 24 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO. Daily Total	NO. Daily Average
1									.38						.26		.64	.08
2			.05		.08		.28				.13		.16				.71	.09
3																		
4																		
5																		
6	.25	.17	.30	.11	.25		.16			.10	.09		.13	.07		.30	2.13	.27
7	.73		.52		.85		.60		.55		.63		.52		.90		5.60	.70
8																		
9	NOTE: Stations listed in each watershed by location North to South																	
10																		
11																		
12																		
13							.15				.06		.04		.17		.42	.05
14																		
15																		
16						.03						.01		.14			.18	.02
17							.03								1.16		1.19	.15
18																		
19																		
20																		
21		1.27		.64				.42		.36				.20			2.89	.36
22			.20		.45		.25		.27		.12		.05		.12		1.46	.18
23																		
24																		
25																		
26		.60		.41		.35		.31		.32		.23		.23			2.45	.31
27	.43		.43		.25		.03				.02		.02		.25		1.43	.18
28																		
29																		
30	.12		.12	.02	.23	.11	.39		.09	.18	.12	.36		.26		.08	2.06	.26
31															.50		.50	.06
TOTAL	1.53	2.04	2.12	1.18	2.12	.49	1.89	.73	1.29	.96	1.17	.60	.92	.58	3.36	.38	21.66	2.71

*Recording gage

August, 1938

STATION / DATE	NO. 1 7a.m.	NO. 1 7p.m.	NO. 25 7a.m.	NO. 25 7p.m.	NO. 26 7a.m.	NO. 26 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 27 7a.m.	NO. 27 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 24 7a.m.	NO. 24 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO. Daily Total	NO. Daily Average
1																		
2																		
3																		
4								.18				.04		.02			.24	.03
5																		
6	.40		.43		.74		1.23		.51		.64		.43		1.77		6.15	.77
7				.24						.23							.47	.06
8					.05		.10				.34		.40			.45	1.34	.17
9																		
10																		
11																		
12																		
13																		
14																		
15	1.30	.25	1.14	.14	1.09	.25	.91	.18	1.00	.13	.68	.21	1.08	.13	.82		9.31	1.16
16	.26	.10	.28	.02	.38	.24	.35	.06	.35	[illegible]	.23	.05	.37	.10		.57	3.22	.40
17																		
18																		
19																		
20		1.72	.06	1.90	.21	1.55	.16	2.37		1.86	.03	2.23	.04	1.85		2.65	16.53	2.07
21					.04													
22																		
23																		
24																		
25																		
26																		
27																		
28	.56		.63		3.37		1.75		1.33		1.20		1.16		1.50		11.53	1.44
29																		
30	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
TOTAL	3.32	2.07	3.39	2.30	6.75	2.47	4.95	2.79	3.35	2.38	3.30	2.53	3.[illegible]	2.10	4.49	3.47	53.21	6.[illegible]

*Recording gage

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by: T.M.
Checked by: W.T.W.
Computed by: T.M.
Checked by: W.M.M.
Final check by: W.M.M.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 West Tarkio Creek Watershed SHEET 11 OF 24 SHEETS

MONTH OF July and August 1938 July, 1938

STATION / DATE	NO. 22 7a.m.	NO. 22 7p.m.	NO. 6 7a.m.	NO. 6 7p.m.	NO. 20 7a.m.	NO. 20 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.	NO. 21 7a.m.	NO. 21 7p.m.	NO. 23 7a.m.	NO. 23 7p.m.	Daily Aver.
1				.19		.03													.02
2	.05	.01			.12		.14		.10		.29		.08	.01	.20		.67		.19
3														.01					
4																			
5				.14															.03
6	.19	.04	.05	.85	.44		.16	.20	.19	.15	.05		#.28		.11	.05		.15	.32
7	.90				.78		.58		.53		.75		.77		1.14		1.33		.75
8																			
9																			
10			NOTE:	Stations listed in each watershed by location North to South															
11																			
12				.03															
13					.10		.09		.09						.05		.15		.05
14																			
15																			
16						.06										.10		.10	.03
17							.09						# .14		.30		.58		.12
18																			
19																			
20																			
21		.59		.85		.40		.48		.10						.12		.16	.30
22					.04		.44				.32		.07		.07		.11		.12
23																			
24																			
25																			
26		.80	1.03	.48	.65			.24		.24				.31		#.23	.04	.27	.48
27	.22	.02			.47		.04						.04				.10		.10
28																			
29				.20															.02
30	.16	.07			.10	.10	.39	.07	.15	.16		1.00	.01	.23		#.30	.10	.07	.32
31																			
TOTAL	1.52	1.53	1.08	3.04	2.70	.59	1.93	.99	1.06	.55	1.41	1.00	1.39	.56	1.87	.80	3.03	.75	2.87

*Recording gage

August, 1938 #Date of rain estimated

STATION / DATE	NO. 22 7a.m.	NO. 22 7p.m.	NO. 6 7a.m.	NO. 6 7p.m.	NO. 20 7a.m.	NO. 20 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.	NO. 21 7a.m.	NO. 21 7p.m.	NO. 23 7a.m.	NO. 23 7p.m.	Daily Aver.
1																			
2															.10				.01
3						.02													
4						.01		.21				.09							.03
5		[illegible]	[illegible]	1.10		.03												.03	.14
6	.93	.23			.04		1.18		.68		1.10		1.69	.01	1.40	.18	.82	1.35	1.13
7		.10	.16			.04					.03	.23	.35						.11
8	.04						.14		.27										.03
9																			
10																			
11																			
12																			
13																	.06		
14				1.27										.40					.16
15	1.[illegible]	.[illegible]	.22	.15	1.[illegible]	.15	.03	.09	1.[illegible]	.23	1.22		.07	.14	1.31	.33	1.[illegible]	.04	1.[illegible]
16	.17	.21			.[illegible]	.08	.24		.52	.12			.16	.13	.10		.15	.01	
17																			
18																			
19				.28															
20	.21	2.[illegible]	1.60		.22	1.13	.22	2.80	.62	2.70	.10	1.75	.04	2.24		1.37		.40	1.[illegible]
21		.[illegible]											.03		.32		.03		
22																			
23																			
24																			
25																			
26																			
27				2.[illegible]														.10	
28	1.[illegible]	.05			2.[illegible]		1.[illegible]		1.17	.01	1.10		1.[illegible]		1.10		1.00		1.[illegible]
29																			
30																			
31																			
TOTAL	5.04	[illegible]	2.29	6.78	7.03	1.56	[illegible]	[illegible]	4.95	2.55	3.53	2.12	5.33	2.40	4.30	2.26	3.70	[illegible]	[illegible]

*Recording gage

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

RECORD OF DAILY PRECIPITATION

Copied by: T.M.
Checked by: W.T.W.
Computed by: T.M.
Checked by: W.M.M.
Final check by: W.M.M.

NAME West Tarkio Cr. Demonstration LOCATION Shenandoah, Iowa
6 stations located in the proximity of Tarkio River and West Tarkio Creek Watersheds

PROJECT NO. Ia-1
MONTH OF July and August 1938

SHEET 12 OF 24 SHEETS

July, 1938

STATION / DATE	NO. 11 Near Westboro, Mo. 7a.m.	NO. 11 7p.m.	NO. 12 7a.m.	NO. 12 7p.m.	NO. 15 Missouri 7a.m.	NO. 15 7p.m.	NO. 17 Tarkio, Mo. 7a.m.	NO. 17 7p.m.	NO. 18 Shenandoah, 7a.m.	NO. 18 7p.m.	NO. 19 Red Oak, Ia. 7a.m.	NO. 19 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.
1				1.23														
2	.67				.70		1.46		.85		.08							
3																		
4																		
5																		
6	.21		.14	1.26					.03			.10						
7	1.37		.02		1.55		1.40		.69		.90							
8																		
9																		
10																		
11																		
12				.52														
13	.16				.14													
14																		
15																		
16			.16	1.09			1.65											
17	.28				.58													
18																		
19																		
20																		
21		.04	.10	.06		.12						.47						
22					.13		.15		.09									
23																		
24																		
25																		
26		.23	.08	.72		.26			.33			.67						
27	.06				.10		.35		.03		.35							
28																		
29																		
30		.25	.21			.14			.28	.67	.09							
31								.01										
TOTAL	2.75	.52	.71	4.88	3.20	.52	5.01	.01	2.35	.67	1.42	1.24						

August, 1938

STATION / DATE	NO. 11 Near Westboro, Mo. 7a.m.	NO. 11 7p.m.	NO. 12 7a.m.	NO. 12 7p.m.	NO. 15 Missouri 7a.m.	NO. 15 7p.m.	NO. 17 Tarkio, Mo. 7a.m.	NO. 17 7p.m.	NO. 18 Shenandoah, 7a.m.	NO. 18 7p.m.	NO. 19 Red Oak, Ia. 7a.m.	NO. 19 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4										.11								
5				.80	.78													
6	1.83		2.34			1.25	1.70	.65	.92		1.42							
7			.04	.04				.17		.72								
8							.50				.08							
9																		
10																		
11																		
12																		
13																		
14				1.45														
15	1.13	.22	.32		1.27	.25	1.35		1.34	.29	1.32	.19						
16	.15	.08	.12		.03	.25	.18		.19	.03	.38							
17							.33											
18																		
19																		
20		1.23	.75						.31	2.21	.43	2.07						
21	.23						.95											
22																		
23																		
24																		
25																		
26																		
27		.03	.04	.38				.14										
28	.96				1.10		.54		.35		3.00							
29																		
30				.20														
31	.22																	
TOTAL	4.78	1.56	3.[illegible]	3.47	3.39	1.75	6.23	.[illegible]	4.06	[illegible]	7.62	2.26						

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by: T.M.
Checked by: W.T.W.
Computed by: T.M.
Checked by: W.T.W.
Final check by: W.T.W.

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 Tarkio River Watershed SHEET 13 OF 24 SHEETS

MONTH OF September & October, 1938 September, 1938

DATE \ STATION	NO. 33 7a.m.	NO. 33 7p.m.	NO. 34 7a.m.	NO. 34 7p.m.	NO. 1* 7a.m.	NO. 1 7p.m.	NO. 25 7a.m.	NO. 25 7p.m.	NO. 35 7a.m.	NO. 35 7p.m.	NO. 36 7a.m.	NO. 36 7p.m.	NO. 26 7a.m.	NO. 26 7p.m.	NO. 37 7a.m.	NO. 37 7p.m.	NO. 38 7a.m.	NO. 38 7p.m.
1																		
2																		
3																		
4																		
5						.50	.04	.20					.02	.20				
6					.05	.30	.15											
7																		
8																		
9																		
10							.54						.05					
11					.98	.10	.71	.17					1.65	.62				
12																		
13					1.06	.27	.85	.24					.09	.19				
14							.05	.02					.06					
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL					2.09	1.17	2.34	.63					2.07	1.01				

New gages were put into operation on the following dates:
Sta. 34 - Sept. 21, 1938 - 1:00 P.M.
" 35 - Sept. 21, 1938 - 11:00 A.M.
" 37 - Sept. 21, 1938 - 2:00 P.M.
" 39 - Sept. 26, 1938 - 4:00 P.M.

NOTE: Stations listed in each watershed by location North to South

*Recording gage

October, 1938

DATE \ STATION	NO. 33 7a.m.	NO. 33 7p.m.	NO. 34 7a.m.	NO. 34 7p.m.	NO. 1* 7a.m.	NO. 1 7p.m.	NO. 25 7a.m.	NO. 25 7p.m.	NO. 35 7a.m.	NO. 35 7p.m.	NO. 36 7a.m.	NO. 36 7p.m.	NO. 26 7a.m.	NO. 26 7p.m.	NO. 37 7a.m.	NO. 37 7p.m.	NO. 38 7a.m.	NO. 38 7p.m.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10						.13				.11								
11			.15												.05			
12			.26		.45			.28	.31					.03				
13																		
14																		
15																		
16																		
17																		
18				.10				.02										
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL			.41	.10	.45	.13		.30	.31	.11				.03	.05			

* Recording gages

*Changed from std. to recording gage, Oct. 10, 1938

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by: T.M.
Checked by: W.T.W.
Computed by: T.M.
Checked by: W.T.W.
Final check by: W.T.W.

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1
MONTH OF September & October 19 38

Tarkio River Watershed
September, 1938

SHEET 14 OF 24 SHEETS

STATION / DATE	NO. 40 7a.m.	NO. 40 7p.m.	NO. 39 7a.m.	NO. 39 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 41 7a.m.	NO. 41 7p.m.	NO. 42 7a.m.	NO. 42 7p.m.	NO. 27 7a.m.	NO. 27 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 24 7a.m.	NO. 24 7p.m.	NO. 43 7a.m.	NO. 43 7p.m.
1																		
2																		
3														.03				
4																		
5						.20						.38		.56		.48		
6																		
7																		
8																		
9																		
10					.07									.26		.42		
11					1.34						1.37		.90	.10	1.06	.05		
12														.42		.14		
13					.25	.73					.88	.26	.19	.73	.72	.30		
14					.08	.08					.09			.01	.08			
15																		
16																		
17													.03			.12		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL					1.74	1.39					2.34	.64	1.12	2.11	1.86	1.51		

New gages were put into operation on the following dates:
Sta. 40 - Sept. 22, 1938 - 10:00 A.M.
" 42 - Sept. 22, 1938 - 2:00 P.M.
" 43 - Sept. 22, 1938 - 3:00 P.M.
" 45 - Sept. 28, 1938 - 9:00 A.M.
" 46 - Sept. 28, 1938 - 12:00 M

*Recording gages

October, 1938

STATION / DATE	NO. 40 7a.m.	NO. 40 7p.m.	NO. 39 7a.m.	NO. 39 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 41 7a.m.	NO. 41 7p.m.	NO. 42 7a.m.	NO. 42 7p.m.	NO. 27 7a.m.	NO. 27 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 24 7a.m.	NO. 24 7p.m.	NO. 43 7a.m.	NO. 43 7p.m.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10		.02	.09							.10				.14				.09
11				.02		.03								.01				
12	.06								.08				.03		.20		.09	
13													.04					
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	.06	.02	.09	.02		.03			.08	.10			.07	.15	.20		.09	.09

*Recording gage

Form SCS-351 Page 3

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by: T.M.
Checked by: W.T.W.
Computed by: T.M.
Checked by: W.T.W.
Final check by: W.T.W.

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 Tarkio River Watershed SHEET 15

MONTH OF September & October 1938 September, 1938 OF 24 SHEETS

STATION / DATE	NO. 45	NO. 45	NO. 44*	NO. 44	NO. 5	NO. 5	NO. 46	NO. 46	NO. 47*	NO. 47*	NO. Daily total	NO. Daily Average	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2											.03							
3																		
4																		
5					.32						3.28	.41						
6											.50	.06						
7																		
8																		
9																		
10											1.34	.17						
11					1.71						10.76	1.34						
12						.10					.66	.08						
13											6.96	.87						
14											.47	.06						
15																		
16																		
17						.10					.25	.03						
18																		
19						.02					.02							
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL					2.03	.22					24.27	3.02						

*Recording gage

October, 1938

STATION / DATE	NO.45 7a.m.	NO.45 7p.m.	NO.44* 7a.m.	NO.44 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO. 46 7a.m.	NO. 46 7p.m.	NO. 47* 7a.m.	NO. 47 7p.m.	NO. Daily total	NO. Daily Average	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10		.12				.05		.20			1.05	.05						
11		.09			.20			.05			.63	.03						
12					.20		.22				2.18	.10						
13											.04							
14																		
15																		
16																		
17																		
18											.12	.01						
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL		.21			.40	.05	.22	.25			4.02	.19						

Recording gages were established on dates shown:
#33 - Oct. 20, 1938
#36 - Oct. 19, 1938
#38 - Oct. 19, 1938
#41 - Oct. 19, 1938
#44 - Oct. 19, 1938
#47 - Oct. 19, 1938

*Recording gage

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by: W.T.W.
Checked by: W.M.M.
Computed by: W.T.W.
Checked by: W.M.M.
Final check by: W.M.M.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

West Tarkio Creek Watershed

PROJECT NO. Ia-1 SHEET 16

MONTH OF September & October 1938 September, 1938 OF 24 SHEETS

STATION / DATE	NO. 22* 7a.m.	NO. 22 7p.m.	NO. 6 7a.m.	NO. 6 7p.m.	NO. 20* 7a.m.	NO. 20* 7p.m.	NO. 30 7a.m.	NO. 30 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16* 7a.m.	NO. 16* 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 31 7a.m.	NO. 31 7p.m.	NO. 9* 7a.m.	NO. 9* 7p.m.
1																		
2																		.04
3																		
4																		
5		.55	.31	.14		.20				.36		.40		.42				.93
6	.06	.07																
7																		
8																		
9																		
10	.09	.97		1.59	.20							.10						1.42
11	.66	.30			.80	1.02			1.32	.16	1.20	.30	1.50				1.06	.02
12				.54										.57				
13	.20			.10		.40			1.02			.84		1.00				.60
14	.02	.07	.08		.06	.01			.12		.03	.03		.10				
15																		
16																		
17						.03				.10							.10	
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	1.03	1.96	.39	2.37	1.06	1.66			2.46	.62	1.23	1.67	1.50	2.09			1.16	3.01

NOTE: Stations listed in each watershed by location North to South.

*Recording gage

October, 1938

STATION / DATE	NO. 22* 7a.m.	NO. 22 7p.m.	NO. 6 7a.m.	NO. 6 7p.m.	NO. 20* 7a.m.	NO. 20* 7p.m.	NO. 30 7a.m.	NO. 30 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16* 7a.m.	NO. 16* 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 31 7a.m.	NO. 31 7p.m.	NO. 9* 7a.m.	NO. 9* 7p.m.
1																		
2																		
3																		
4																		
5																		
6									.01									
7																		
8																		
9																		
10		.07	.08			.03		.12		.15		.09		.20		.03		.10
11					.02							.02		.18		.07		.14
12	.22	.01			.09				.05						.05		.06	
13																		
14																		
15																		
16																		
17																		
18			.03															
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	.22	.08	.11		.11	.08		.12	.06	.15		.11		.38	.05	.10	.06	.24

*Recording gage

Form SCS-351 Page 2

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by: W.T.W.
Checked by: W.M.M.
Computed by: W.T.W.
Checked by: W.M.M.
Final check by: W.M.M.

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 West Tarkio Creek Watershed SHEET 17 OF 24 SHEETS

MONTH OF September & October, 1938

September, 1938

STATION / DATE	NO. 32 7a.m.	NO. 32 7p.m.	NO. 21* 7a.m.	NO. 21* 7p.m.	NO. 23* 7a.m.	NO. 23* 7p.m.	NO.	NO. Daily Total	NO.	NO. Daily Average	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2								.04		-								
3																		
4																		
5				1.08		.49		4.32		.54								
6								.13		.01								
7																		
8																		
9																		
10				.64		.90		5.51		.61								
11			1.22	.22	1.20	.10		11.05		1.23								
12								1.11		.12								
13				.04				4.20		.47								
14								.52		.06								
15																		
16																		
17						.05		.28		.03								
18																		
19				.03				.03		-								
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL			1.22	2.01	1.20	1.14		27.78		3.07								

New gages were put in operation on the following dates:

Sta. 30 Sept. 22, 1938 - 10:00 A.M.
" 31 Sept. 26, 1938 - 12:00 A.M.
" 32 Sept. 26, 1938 - 12:00 M.

*Recording gage

October, 1938

STATION / DATE	NO. 32 7a.m.	NO. 32 7p.m.	NO. 21* 7a.m.	NO. 21* 7p.m.	NO. 23* 7a.m.	NO. 23* 7p.m.	NO.	NO. Daily Total	NO.	NO. Daily Average	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5																		
6								.01		.00								
7																		
8																		
9																		
10								.03		.03								
11		.17		.13		.20		.53		.03								
12			.07		.10			.55		.05								
13																		
14																		
15																		
16																		
17																		
18								.03		.00								
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL		.17	.07	.23	.10	.20		2.54		.21								

*Recording gage

Form 6554a

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by: T.M.
Checked by: W.T.W.
Computed by: W.M.M.
Checked by: W.T.W.
Final check by: W.T.W.

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 — 6 stations located in the proximity of Tarkio River and West Tarkio Creek Watersheds

SHEET 18 OF 24 SHEETS

MONTH OF September & October 19 38 — September, 1938

STATION / DATE	NO. 11 Near Bartlett 7a.m.	NO. 11 Near Bartlett 7p.m.	NO. 12 Northern 7a.m.	NO. 12 Northern 7p.m.	NO. 15 Missouri 7a.m.	NO. 15 Missouri 7p.m.	NO. 17 Tarkio, Mo. 7a.m.	NO. 17 Tarkio, Mo. 7p.m.	NO. 18 Shenandoah, 7a.m.	NO. 18 Shenandoah, 7p.m.	NO. 19 Red Oak, Ia. 7a.m.	NO. 19 Red Oak, Ia. 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2		.04	.04															
3					.02													
4							.10											
5	.55		.12			.44		.10		.34		.77						
6											.02	.19						
7																		
8																		
9																		
10		.03	.24	1.41	.12			.22			.05	1.14						
11	1.54		.03			1.38	1.48		1.73		.90							
12				.02														
13							.06		.14	.33		.30						
14											.10							
15					.02													
16																		
17			.02			.05		.05										
18		.12		.04														
19																		
20					.03													
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	2.09	.46	.48	1.52	.40	1.87	1.64	.54	1.79	.67	1.08	2.40						

MONTH OF October, 1938

STATION / DATE	NO. 11 Near Bartlett 7a.m.	NO. 11 Near Bartlett 7p.m.	NO. 12 Northern 7a.m.	NO. 12 Northern 7p.m.	NO. 15 Missouri 7a.m.	NO. 15 Missouri 7p.m.	NO. 17 Tarkio, Mo. 7a.m.	NO. 17 Tarkio, Mo. 7p.m.	NO. 18 Shenandoah, 7a.m.	NO. 18 Shenandoah, 7p.m.	NO. 19 Red Oak, Ia. 7a.m.	NO. 19 Red Oak, Ia. 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8			.05															
9																		
10			.22						.01									
11		.30	.03	.21					.07		.17							
12					.03		.32											
13																		
14																		
15																		
16																		
17												.02						
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL		.30	.30	.21	.03		.32		.08		.17	.02						

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by: T.M.
Checked by W.T.W.
Computed by: T.M.
Checked by: W.T.W.
Final check by: W.M.M.

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 23 stations - Tarkio River Watershed SHEET 19

MONTH OF November & December 19 38 November, 1938 OF 24 SHEETS

DATE \ STATION	NO. 33* 7a.m.	NO. 33 7p.m.	NO. 34 7a.m.	NO. 34 7p.m.	NO. 1* 7a.m.	NO. 1 7p.m.	NO. 25 7a.m.	NO. 25 7p.m.	NO. 35 7a.m.	NO. 35 7p.m.	NO. 36* 7a.m.	NO. 36 7p.m.	NO. 26 7a.m.	NO. 26 7p.m.	NO. 37 7a.m.	NO. 37 7p.m.	NO. 38* 7a.m.	NO. 38 7p.m.
1		.19		.14		.12		.12		.10		.13		.18		.52		.25
2																1.55		
3	1.67	.43	1.53	.42	1.44	.46	1.48	.51	1.57	.50	1.51	.40	1.58	.43	.52	.10	1.47	.47
4	.09		.10		.10		.11		.06		.10		.10				.05	
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	1.50	.62	1.63	.56	1.54	.58	1.59	.63	1.63	.60	1.61	.53	1.68	.61	.52	2.17	1.52	.72

NOTE: Stations listed in each watershed by location North to South.

*Recording gages

December, 1938

DATE \ STATION	NO. 33* 7a.m.	NO. 33 7p.m.	NO. 34 7a.m.	NO. 34 7p.m.	NO. 1* 7a.m.	NO. 1 7p.m.	NO. 25 7a.m.	NO. 25 7p.m.	NO. 35 7a.m.	NO. 35 7p.m.	NO. 36* 7a.m.	NO. 36 7p.m.	NO. 26 7a.m.	NO. 26 7p.m.	NO. 37 7a.m.	NO. 37 7p.m.	NO. 38* 7a.m.	NO. 38 7p.m.
1																		
2		.02										.07						.05
3																		
4							.05											
5																		
6																		
7																.03		
8	.03				.06				.03		.06						.03	
9			.04															
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22	.10		.20		.17		.09		.17		.16	.02	.05		.10		.17	
23																	.02	
24																		
25																		
26								.03										
27																		
28																		
29																		
30																		
31																		
TOTAL	.13	.02	.24		.23		.14	.09	.20		.16	.09	.05		.10	.03	.22	.05

* The observer at Station No. 25 died this month. [illegible] the data was reported by his widow. Circumstances make this report questionable.

Form SCS-351 Page 2

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by: T.M.
Checked by: W.T.W.
Computed by: T.M.
Checked by: W.T.W.
Final check by: W.M.M.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1

23 stations - Tarkio River Watershed

SHEET 20 OF 24 SHEETS

MONTH OF November & December 19 38

November, 1938

STATION / DATE	NO. 40 7a.m.	NO. 40 7p.m.	NO. 39 7a.m.	NO. 39 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 41 7a.m.	NO. 41 7p.m.	NO. 42 7a.m.	NO. 42 7p.m.	NO. 27 7a.m.	NO. 27 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 24 7a.m.	NO. 24 7p.m.	NO. 43 7a.m.	NO. 43 7p.m.
1		.44		.15		.25		.40		.18		.36		.18	.15			.23
2				1.80														
3	1.67	.45	.50	.09	1.70	.45	1.65	.47	1.60	.50	1.90	.43	1.60	.45	1.70	.50	1.72	.51
4	.03				.06		.08		.05				.09					
5		.02																
6				.01						.05		.10				.05		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27															.04			
28																		
29																		
30																		
31																		
TOTAL	1.75	.91	.50	2.05	1.76	.70	1.73	.87	1.65	.73	1.90	.89	1.69	.63	1.89	.55	1.72	.74

NOTE: Stations listed in each watershed by location North to South.

*Recording gage

December, 1938

STATION / DATE	NO. 40 7a.m.	NO. 40 7p.m.	NO. 39 7a.m.	NO. 39 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 41 7a.m.	NO. 41 7p.m.	NO. 42 7a.m.	NO. 42 7p.m.	NO. 27 7a.m.	NO. 27 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 24 7a.m.	NO. 24 7p.m.	NO. 43 7a.m.	NO. 43 7p.m.
1																		
2		.07	.05			.16		.32		.12		.32		.14		.24		.23
3																		
4																		
5																	.02	
6																		
7																		
8					.03		.01											
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22	.10	.09	.10		.15		.11		.12		.26		.17		.18		.08	
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
TOTAL	.10	.16	.15		.18	.16	.12	.32	.12	.12	.26	.32	.17	.14	.18	.24	.10	.23

*Recording gage

Form SCS-251 Page 3

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by: T.M.
Checked by: W.T.W.
Computed by: T.M.
Checked by: W.T.W.
Final check by: W.M.M.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 23 stations - Tarkio River Watershed SHEET 21 OF 24 SHEETS

MONTH OF November & December 1938 November, 1938

STATION / DATE	NO. 45 7a.m.	NO. 45 7p.m.	NO. 44* 7a.m.	NO. 44 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO. 46 7a.m.	NO. 46 7p.m.	NO. 47* 7a.m.	NO. 47* 7p.m.	NO.	NO. Daily Total	NO. Daily Average	NO.	NO.	NO.	NO.	NO.
1		.21		.20		.16		.30		.14		5.10	.22					
2												3.35	.15					
3	1.70	.40	1.74	.51		#2.22	1.67	.60	1.70	.43		45.20	1.97					
4	.10		.05		.05				.03			1.30	.06					
5	.10											.10	.00					
6												.23	.01					
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26												.04	.00					
27																		
28																		
29																		
30																		
31																		
TOTAL	1.90	.61	1.79	.71	.05	2.38	1.67	.90	1.73	.62		55.32	2.41					

NOTE: Stations listed in each watershed by location North to South

Probably about 3/4 of this 2.22 fell before 7:00 A.M.

*Recording gages

December, 1938 Monthly average from daily totals ... 2.41

STATION / DATE	NO. 45 7a.m.	NO. 45 7p.m.	NO. 44* 7a.m.	NO. 44 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO. 46 7a.m.	NO. 46 7p.m.	NO. 47* 7a.m.	NO. 47* 7p.m.	NO.	NO. Daily Total	NO. Daily Average	NO.	NO.	NO.	NO.	NO.
1																		
2	.08	.10		.41		.37		.37	.24	.35		3.72	.16					
3																		
4												.05						
5							.03					.05						
6																		
7												.03						
8			.02						.01			.23	.01					
9												.04						
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22	.15		.17		.15				.12			3.12	.14					
23												.02						
24																		
25																		
26												.09						
27																		
28																		
29																		
30																		
31																		
TOTAL	.23	.10	.19	.41	.15	.37	.03	.37	.37	.35		7.39	.31					

*Recording gages Monthly average from daily totals ..... .32

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by: T.M.
Checked by: W.T.W.
Computed by: T.M.
Checked by: W.T.W.
Final check by: W.M.M.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

12 stations - West Tarkio Creek Watershed

PROJECT NO. Ia-1

MONTH OF November & December 1938

November, 1938

SHEET 22 OF 24 SHEETS

STATION / DATE	NO. 22 7a.m.	NO. 22 7p.m.	NO. 6 7a.m.	NO. 6 7p.m.	NO. 20 7a.m.	NO. 20 7p.m.	NO. 30 7a.m.	NO. 30 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 31 7a.m.	NO. 31 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.
1		.20		.20		.14		.12		.14		.33		.25		.21		.23
2		.01																
3	1.54	.49	1.65	.47	1.58	.47	1.70	.45	1.68	.42	1.50	.45	1.60	.45	1.65	.30	1.56	.49
4	.04		.03		.03				.06		.05					.02	.03	
5																		
6				.07						.02						.02		
7																		
8																		
9			NOTE: Stations listed in each watershed by location North to South															
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26													.04					
27																		
28																		
29																		
30																		
TOTAL	1.58	.70	1.68	.74	1.61	.61	1.70	.57	1.74	.58	1.55	.78	1.64	.70	1.72	.55	1.59	.72

*Recording gages

December, 1938

STATION / DATE	NO. 22 7a.m.	NO. 22 7p.m.	NO. 6 7a.m.	NO. 6 7p.m.	NO. 20 7a.m.	NO. 20 7p.m.	NO. 30 7a.m.	NO. 30 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 31 7a.m.	NO. 31 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.
1																		
2			.02		.02	.03		.05		.08		.10	.03	.12	.03	.04	.16	
3	.05																	
4	.02			.02					.02							.03		
5																		
6																		
7															.01			
8	.03		.04		.02		.06		.02		.02							
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22	.09	.02			.12	.04		.05	.15	.02	.12		.15		.22		.22	
23	.01	.02																
24																		
25																		
26																		
27																		
28																		
29																		
30																		
TOTAL	.20	.04	.06	.02	.16	.07	.06	.10	.19	.10	.14	.10	.38	.12	.26	.07	.38	

*Recording gages

Form SCS-331 Page 2

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by: T.M.
Checked by: W.T.W.
Computed by: T.M.
Checked by: W.T.W.
Final check by: W.M.M.

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa
12 stations - West Tarkio Creek Watershed
November, 1938

PROJECT NO. Ia-1
MONTH OF November & December 1938

SHEET 23 OF 24 SHEETS

STATION / DATE	NO. 32 7a.m.	NO. 32 7p.m.	NO. 21* 7a.m.	NO. 21* 7p.m.	NO. 23* 7a.m.	NO. 23* 7p.m.	NO.	NO. Daily Total	NO.	NO. Daily Average	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1		.23		.33		.25		2.63		.22								
2								.01		.00								
3	1.68	.34	1.55	.49	1.70	.40		[illegible]		2.36								
4	.06	.01	.04		.69			.53		.04								
5																		
6		.01						.12		.01								
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26								.04		.00								
27																		
28																		
29																		
30																		
31																		
TOTAL	1.74	.59	1.59	.82	1.79	.71		28.00		2.33								

*Recording gages

December, 1938

STATION / DATE	NO. 32 7a.m.	NO. 32 7p.m.	NO. 21* 7a.m.	NO. 21* 7p.m.	NO. 23* 7a.m.	NO. 23* 7p.m.	NO.	NO. Daily Totals	NO. Daily Average	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2	.01	.13		.20		.33		1.35	.11									
3								.05										
4		.02						.11	.01									
5																		
6																		
7								.01										
8	.04				.01			.24	.02									
9			.02					.02										
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22	.14		.20		.19			1.23	.14									
23								.01										
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	.19	.15	.22	.20	.20	.33		3.54	.28									

*Recording gages

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by: T.M.
Checked by: W.T.W.
Final check by: W.M.M.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 — 6 stations located in the proximity of Tarkio River and West Tarkio Creek Watersheds

MONTH OF November & December 1938

SHEET 24 OF 24 SHEETS

November, 1938

STATION / DATE	NO. 11 Near Westboro 7a.m.	NO. 11 Near Westboro 7p.m.	NO. 12 Westboro 7a.m.	NO. 12 Westboro 7p.m.	NO. 15 Missouri 7a.m.	NO. 15 Missouri 7p.m.	NO. 17 Tarkio, Mo. 7a.m.	NO. 17 Tarkio, Mo. 7p.m.	NO. 18 Shenandoah, 7a.m.	NO. 18 Shenandoah, 7p.m.	NO. 19 Red Oak, Ia. 7a.m.	NO. 19 Red Oak, Ia. 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2		.20	.31			.29		.27	.18			.34						
3			1.70							.44								
4	1.85	.42	.44	.05	.29	1.75	1.81	.49	1.43	.09	1.61	.52						
5	.09								.02		.07							
6																		
7			.04				.03		.01									
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20				.01						.01								
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	1.94	.62	2.49	.06	.29	2.04	1.84	.76	1.64	.54	1.68	.86						

December, 1938

STATION / DATE	NO. 11 Near Westboro 7a.m.	NO. 11 Near Westboro 7p.m.	NO. 12 Westboro 7a.m.	NO. 12 Westboro 7p.m.	NO. 15 Missouri 7a.m.	NO. 15 Missouri 7p.m.	NO. 17 Tarkio, Mo. 7a.m.	NO. 17 Tarkio, Mo. 7p.m.	NO. 18 Shenandoah, 7a.m.	NO. 18 Shenandoah, 7p.m.	NO. 19 Red Oak, Ia. 7a.m.	NO. 19 Red Oak, Ia. 7p.m.	NO.	NO.	NO.	NO.	NO.	NO.
1				.06														
2	.40		.50		.26			.40	.05	.07								
3							.02											
4			.01			.02		.04										
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21				.07														
22	.06				.14		.02		.35		.05							
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
TOTAL	.46		.51	.13	.40	.02	.04	.44	.40	.07	.05							

Form SCS-331

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by T.M.
Checked by W.T.W.
Computed by T.M.
Checked by W.T.W.
Final check by W.T.W.

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 SHEET 1 OF 40 SHEETS

MONTH OF January & February, 1939

23 stations - Tarkio River Watershed
January, 1939

DATE \ STATION	NO. 33 Ta.m.	NO. 33 Tp.m.	NO. 34 Ta.m.	NO. 34 Tp.m.	NO. 1 Ta.m.	NO. 1 Tp.m.	NO. 25 Ta.m.	NO. 25 Tp.m.	NO. 35 Ta.m.	NO. 35 Tp.m.	NO. 36 Ta.m.	NO. 36 Tp.m.	NO. 26 Ta.m.	NO. 26 Tp.m.	NO. 37 Ta.m.	NO. 37 Tp.m.	NO. 38 Ta.m.	NO. 38 Tp.m.
1																		
2																		
3																		
4	.16		.03		.06						.35				.02		.06	
5																		
6																		
7																		
8																		
9	.10		.08		.07		.07		.05		.07		.03				.05	
10																		
11															.06			
12			$.05										.02					
13		.06			.01	.02	.02			.05	.01	.05					.04	.04
14		.05				.08		.10				.02						.02
15	.15		.19		.19		.10		.25		.06		.23		.34		.12	
16															.09			
17	.07	.02	$.09		.04	.02	.04		.07		.06	.02	.07				.08	.04
18																		
19																		
20																		
21																		
22																		
23		.16		.20		.19		.18		.20		.16		.12		.17		.25
24					.02													
25																		
26																		
27																		
28																		
29																		
30																		
31												.02						
TOTAL	.48	.29	.50	.20	.39	.31	.23	.28	.46	.25	.35	.27	.35	.12	.29	.17	.36	.35

*Recording gages $Gage read at 8:30 A.M. February, 1939 Reading taken at 9:00 A.M.

DATE \ STATION	NO. 33 Ta.m.	NO. 33 Tp.m.	NO. 34 Ta.m.	NO. 34 Tp.m.	NO. 1 Ta.m.	NO. 1 Tp.m.	NO. 25 Ta.m.	NO. 25 Tp.m.	NO. 35 Ta.m.	NO. 35 Tp.m.	NO. 36 Ta.m.	NO. 36 Tp.m.	NO. 26 Ta.m.	NO. 26 Tp.m.	NO. 37 Ta.m.	NO. 37 Tp.m.	NO. 38 Ta.m.	NO. 38 Tp.m.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9	.10	.46	.13	.41	.13	.46	.11	.41		.40	.12	.40		.53		.54	.10	.43
10					Snow, rain and sleet													
11																		
12																		
13																		
14																		
15																		
16		.10		.10		.10		$ .12		.13		.09		.11		.04		.23
17									Snow									
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28	.30		$ .28		.15				.16	.23	.14		$ .24		.54		.42	.43
29																		
30																		
31																		
TOTAL	.40	.56	.33	.51	.28	.42	.21	.37	.16	.36	.26	.49	.24	.64	.54	.58	.52	.99

*Recording gages $Interpolated from sta. 2 & 35 Reading at 8:00 A.M.

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by T.M.
Checked by W.T.W.
Computed by T.M.
Checked by W.T.W.
Final check by W.T.W.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 — 23 stations - Tarkio River Watershed — SHEET 2 OF 40 SHEETS

MONTH OF January & February 19 39 — January, 1939

STATION / DATE	NO. 40 7a.m.	NO. 40 7p.m.	NO. 39 7a.m.	NO 39 7p.m.	NO 3 7a.m.	NO. 3 7p.m.	NO. 41 7a.m.	NO. 41 7p.m.	NO. 42 7a.m.	NO. 42 7p.m.	NO. 27 7a.m.	NO. 27 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 24 7a.m.	NO. 24 7p.m.	NO. 43 7a.m.	NO. 43 7p.m.
1																		
2																		
3											.07							
4			.06				.02		.02				.02				.03	
5																		
6																		
7																		
8																		
9	.04		.05		.04		.04		.05		.03		.05		.05		.05	
10																		
11																		
12																		
13	.04	.01	.03		.02		.03	.03	#.05		.06		.01	.03		.25	.02	
14				.19														
15	.15				.25		.08		.10		.16		.13		.22		.14	
16																		
17	.06		.07		.08		.08	.03	%.08		.06		.06	.02			.06	
18																		
19																		
20																		
21																		
22																		
23		.20		.20	.06	.18		.20		.20		.20	.02	.18		.29	.09	.11
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31														.01				
TOTAL	.29	.21	.21	.39	.45	.18	.25	.26	.30	.20	.33	.20	.29	.24	.33	.34	.39	.11

*Recording gages #Reading taken at 11:30 A.M. Feb. 1939 % Measurement made at 8:00 A.M.

STATION / DATE	NO. 40 7a.m.	NO. 40 7p.m.	NO. 39 7a.m.	NO. 39 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 41 7a.m.	NO. 41 7p.m.	NO. 42 7a.m.	NO. 42 7p.m.	NO. 27 7a.m.	NO. 27 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO 24 7a.m.	NO 24 7p.m.	NO. 43 7a.m.	NO. 43 7p.m.
1					.01													
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9	.05	.50		.45		.50	.07	.44	.18	.39		.38	.05	.44		.51	.05	.30
10							.01											
11						snow, rain and sleet												
12																		
13																		
14																		
15																		
16		.05		.02		.06			#.03	.04	.04		.02	.01		.03	.02	
17								.06										
18										snow								
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27				.04		.10						.03		.03				.02
28	.32		.41		.16		.26	.22	[illegible]		.62		.30	.10	.51		[illegible]	
29							snow with high wind											
30																		
31																		
TOTAL	.27	.55	.41	.51	.17	.66	.34	.52	.90	.43	.56	.41	.46	.58	.76	.59	[illegible]	.32

*Recording gages #Reading at 9:30 A.M. %Reading at 8:00 A.M.

Form SCS-231 Page 3

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by T.M.
Checked by E.T.W.
Computed by T.M.
Checked by E.T.W.
Typing checked by E.T.W.

NAME West Tarkio Cr. Demonstration Watershed LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 — 23 stations - Tarkio River Watershed — SHEET 3 OF 40 SHEETS

MONTH OF January & February 1939 — January, 1939

DATE \ STATION	NO. 45 7a.m.	NO. 45 7p.m.	NO. 46 7a.m.	NO. 44 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO. 46 7a.m.	NO. 46 7p.m.	NO. 47 7a.m.	NO. 47 7p.m.	NO.	NO. Daily Totals	NO. Daily Average	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3												.07						
4			.05		.05				.05			.22	.04					
5																		
6																		
7																		
8					.05							.05						
9			.07						.06			1.47	.05					
10																		
11												.04						
12												.07						
13	.04		.05	.05					.03	.04		.22	.04					
14						.27						.73	.03					
15	.23		.32				.37		.32			3.95	.27					
16												.09						
17	.05		.04	.01		.05			.05	.03		1.45	.06					
18																		
19																		
20																		
21																		
22								.30				.30	.01					
23	.03	.06	.04	.14		.01			.04	.04		.37	.02					
24												.02						
25																		
26																		
27																		
28																		
29																		
30																		
31										.04		.07						
TOTAL	.40	.06	.57	.20	.10	.53	.37	.30	.54	.25		13.99	.59					

*Recording gages

February, 1939

DATE \ STATION	NO. 45 7a.m.	NO. 45 7p.m.	NO. 44 7a.m.	NO. 44 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO. 46 7a.m.	NO. 46 7p.m.	NO. 47 7a.m.	NO. 47 7p.m.	NO.	NO. Total	NO. Mean	NO.	NO.	NO.	NO.	NO.
1												.02						
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9	.10	.40	.07	.55		.43		.40	.04	.46		11.67	.51					
10						snow, rain and sleet						.47						
11																		
12																		
13																		
14																		
15		.10										.10						
16			.03	.04		.02			.07	.04		1.45	.06					
17								snow				.06						
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27		$ .02		.13						.08		.62	.03					
28	.05		.47			.21		.71	.44			9.44	.41					
29								snow with high wind										
30																		
31																		
TOTAL	.15	.52	.57	.72		.66		1.11	.55	.58		23.42	1.01	Total of Means				
													1.02	Mean of Totals				

*Recording gages $Reading at 6:00 P.M.

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by T.M.
Checked by W.T.W.
Computed by T.M.
Checked by W.T.W.
Final check by W.T.W.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project — LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 — 12 stations - West Tarkio Creek Watershed — SHEET 4 OF 40 SHEETS

MONTH OF January & February 1939 — January, 1939

STATION / DATE	NO. 22 7a.m.	NO. 22 7p.m.	NO. 6 7a.m.	NO. 6 7p.m.	NO. 20 7a.m.	NO. 20 7p.m.	NO. 30 7a.m.	NO. 30 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 31 7a.m.	NO. 31 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.
1																		
2	NOTE: Stations listed in each watershed by location North to South																	
3																		
4	.01				.02				.02									
5																		
6			.05															
7																		
8															.04			
9	.04		#.04		.07		.06		.04		.05		.05				.05	
10																		
11																		
12																		
13		.03	*.05		.04	.03			.04		.02	.04	.02	.03	.02		.02	
14		.05				.04												
15	.24		.22		.10		.22		.08		.09		.17		.18		.15	
16															.10			
17	.04	.01	#.05		.05	.01			.08		.07	.01	.03				.08	
18																		
19																		
20																		
21																		
22															.09	.03		
23	.02	.11	&.09		.06	.18				.26	.08	.08	.10	.15			.10	.10
24	.01																	
25																		
26																		
27																		
28																		
29																		
30																		
31														.10		.02		
TOTAL	.36	.20	.50		.34	.26	.28		.26	.26	.31	.13	.37	.28	.43	.10	.40	.10

*Recording gages #Gage read at 8:00 A.M. February, 1939 &Gage read at 12:00 Noon [illegible] read at 10:30 A.M.

STATION / DATE	NO. 22 7a.m.	NO. 22 7p.m.	NO. 6 7a.m.	NO. 6 7p.m.	NO. 20 7a.m.	NO. 20 7p.m.	NO. 30 7a.m.	NO. 30 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 31 7a.m.	NO. 31 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9	.09	.45		# .55	.06	.35		.52	.11	.40	.10	.44	.10	.35	.07	.34	.05	.34
10	.01					Snow, rain and sleet												
11																		
12																		
13																		
14																		
15														.03				
16		.09	.08			.01				.05	.02	.04			.04	.02		
17		.02								snow								
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27		.06								.05		.04		.05		.03		.01
28	.52	.02	*.38		.11		.15		.18		.39	.06	.20		.26	.02	.29	
29						snow with high wind												
30																		
31																		
TOTAL	.62	.64	.46	.55	.17	.36	.15	.52	.29	.50	.51	.58	.30	.43	.37	.41	.25	.35

*Recording gages #Gage read at 5:00 P.M. *Reading at 12 Noon

Form SCS-231

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by T.M.
Checked by W.T.W.
Computed by T.M.
Checked by W.T.W.
Final check by W.T.W.

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 — 12 stations - West Tarkio Creek Watershed — SHEET 5 OF 40 SHEETS

MONTH OF January & February 19 39 — January, 1939

DATE	NO. 32 7a.m.	NO. 32 7p.m.	NO. 21 7a.m.	NO. 21 7p.m.	NO. 23 7a.m.	NO. 23 7p.m.	NO.	NO. Daily Totals	NO. Daily Average	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4	.02				.01			.08	.01									
5																		
6								.05										
7																		
8								.04										
9	.03		.03		.03			.51	.06									
10																		
11																		
12																		
13	.04		.01	.02	.03			.46	.04									
14								.02	.01									
15	.22		.38		.23			1.23	.16									
16								.10	.01									
17	.07		.09	.01	.14			.76	.06									
18																		
19																		
20																		
21																		
22								.17	.01									
23	.06	.07	.05	.15	.30	.10		1.[illegible]	.15									
24								[illegible]										
25																		
26																		
27																		
28																		
29																		
30																		
31				.04		.06		.20	.02									
TOTAL	.44	.07	.30	.22	.54	.14		6.49	.52									

*Recording gages

February, 1939

DATE	NO. 32 7a.m.	NO. 32 7p.m.	NO. 21 7a.m.	NO. 21 7p.m.	NO. 23 7a.m.	NO. 23 7p.m.	NO.	NO. Total	NO. Mean	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9		.44	.02	.31	.09	.34		5.57	.47									
10		Snow, rain and sleet						.01										
11																		
12																		
13																		
14																		
15								.03										
16		.04	.02	.02	.03	.08		.52	.04									
17			.02					.02										
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27				.01		.05		.30	.02									
28	.22		.20	.03	.43	.02		3.39	.28									
29		.04	with high wind															
30																		
31																		
TOTAL	.22	.48	.31	.37	.60	.42		9.26	.81	Total of Means								

*Recording gages %Reading at 10:00 A.M.

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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Computed by T.M.
Checked by W.T.W.
Final check by W.T.W.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1

MONTH OF January & February 19 39

7 stations - located in the proximity of Tarkio River and West Tarkio Creek Watershed

January, 1939

SHEET 6 OF 40 SHEETS

STATION / DATE	NO. 11 Middle Tarkio Creek 7a.m.	NO. 11 7p.m.	NO. 12 7a.m.	NO. 12 7p.m.	NO. 15 West Tarkio Creek 7a.m.	NO. 15 7p.m.	NO.	NO. 17 West Tarkio Creek 7a.m.	NO. 17 7p.m.	NO.	NO. 18 East 7a.m.	NO. 18 7p.m.	NO.	NO. 19 River 7a.m.	NO. 19 7p.m.	NO.	NO. 23 West Nodaway 7a.m.	NO. 23 7p.m.
1																		
2																		
3																		
4											#.14			.05				
5																		
6																		
7																		
8																		
9	.05				.02			.02			#.04							.05
10																		
11																		
12				.01														
13			.02								.01							.03
14				.34								##.03						.05
15	.30				.22			.12			#.19			.20				.20
16				.03														
17	.10				.07			.03			#.11			.07				.05
18																		
19																		
20																		
21																		
22																		
23		.28	.07	.14		.16		.11	.09		.20	.07			.12		.09	.10
24																	.02	
25																		
26																		
27																		
28																		
29																		
30																		
31			.02									.04			.01			.03
TOTAL	.45	.28	.11	.37	.30	.16		.49	.09		.60	.14		.32	.13		.11	.27

#Gage read at 7:30 A.M. ##Snow gage read at 8:30 A.M. Feb. 1939 ##Reading at 7:30 P.M.

STATION / DATE	NO. 11 Near Westboro, No. 7a.m.	NO. 11 7p.m.	NO. 12 7a.m.	NO. 12 7p.m.	NO. 15 West Tarkio 7a.m.	NO. 15 7p.m.	NO.	NO. 17 Tarkio, Mo. 7a.m.	NO. 17 7p.m.	NO.	NO. 18 Shenandoah 7a.m.	NO. 18 7p.m.	NO.	NO. 19 Red Oak 7a.m.	NO. 19 7p.m.	NO.	NO. 23 Clarinda, Ia 7a.m.	NO. 23 7p.m.
1																	.01	
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9		.35	.06	.36		.44		.05	.40						.42		.06	.75
10								Snow, rain and sleet									.01	
11																		
12																		
13																		
14																		
15																		
16		.04	.02	.02				.03				.04		.01	.01		.24	
17					Snow													
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27		.04							.01			.04						.10
28		.46	.08	.64		1.00		.78			.14			.19			.69	.09
29								Snow with high wind										
30																		
31																		
TOTAL		.89	.16	1.02		1.44		.86	.41		.14	.03		.20	.44		.80	.94

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by W.S.
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Computed by W.T.W.
Checked by W.T.W.
Final check by W.T.W.

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. 1541 — 23 stations - Tarkio River Watershed — SHEET 7 OF 40 SHEETS

MONTH OF March & April 1930 — March, 1939

STATION / DATE	NO. 33	NO. 33	NO. 34	NO. 34	NO. 1	NO. 1	NO. 25	NO. 25	NO. 35	NO. 35	NO. 36	NO. 36	NO. 26	NO. 26	NO. 37	NO. 37	NO. 38	NO. 38
	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.
1																		
2																		
3							Stations listed in each watershed by location North to South											
4																		
5	.06	.12		.14		.17		.20	.02	.22	.07	.26	.24	.21		.34	.25	.25
6																		
7																		
8																		
9																		
10																		
11	.02	.22	.34	.20	.30	.31	.12	.34	.14	.40	.15	.42	.22	.32	.51	.09	.38	.30
12	.51		.64		.72		.78				1.05		1.52		1.38		1.02	
13																		
14																		
15																		
16																		
17																.02		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25	.04		.03		.05		.12		.10		.33		.65		.73		.58	
26																		
27																		
28								.57										
29	.02	.21	.05	.15	.21	.24			.08	.17	.04	.12		.25		.20	.10	.15
30																		
31		.17		.22		.11	.12			.20		.11		.30		.25		.14
TOTAL	.72	.72	.77	.61	.97	.83	1.14	1.23	1.22	.83	2.15	.91	2.43	1.08	2.62	.90	2.33	.70

*Recording gages **Reading taken at 8:00 A.M. APRIL, 1939 ‡Reading taken at 5:30 P.M. #Reading taken at 9:00 A.M.

STATION / DATE	NO. 33	NO. 33	NO. 34	NO. 34	NO. 1	NO. 1	NO. 25	NO. 25	NO. 35	NO. 35	NO. 36	NO. 36	NO. 26	NO. 26	NO. 37	NO. 37	NO. 38	NO. 38
	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.	7a.m.
1	.04																	
2	.17		.12		.10		.19		.13		.10		.21		.15		.10	
3																		
4		.18		.21		.25	.30			.16		.40		.38		.45		.42
5	.17		.18		.05				.14		.12		.09				.03	
6																		
7																		
8																		
9																		
10																	.01	
11																		
12																		
13																		
14	.04		.03		.07				.18		.03		.09		.07		.03	
15	.18		.14	.05	.75		.36	.02	.24	.05	.13	.02	.09		.10		.09	
16	.03	.03	.02						.02									
17		.24		.17		.28			.12	.42		.53		.34		.80		.46
18	.08				.14		.03		.25		.13		.21				.17	
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26		.01				.01												.01
27			.01														.02	
28																		
29																		
30																		
31																		
TOTAL	.58	.52	.95	.43	1.11	.54	1.59	.02	.90	.73	.41	.95	.69	.72	.32	1.25	.43	.93

*Recording gages

%Gage read at 8:00 P.M.

Form SCS-361 Page 2

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by W.S.
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Checked by W.T.W.
Final check by W.T.W.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

23 stations - Tarkio River Watershed

PROJECT NO. 1-1 SHEET B

MONTH OF March & April 1939 March, 1939 OF 40 SHEETS

STATION / DATE	NO. 40 7a.m.	NO. 40 7p.m.	NO. 39 7a.m.	NO. 39 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 41 7a.m.	NO. 41 7p.m.	NO. 42 7a.m.	NO. 42 7p.m.	NO. 27 7a.m.	NO. 27 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 24 7a.m.	NO. 24 7p.m.	NO. 43 7a.m.	NO. 43 7p.m.
1																		
2																		
3																		
4																		
5	.24	.18	.31	.15	.21	.10	.12	snow .06	a .25	a .15	.12	.09	.18	.12	.17	.09	.10	.08
6								.09										
7																		
8									Not distributed by interpolation									
9																		
10														.16				
11	.85	.09	** .73	.41	.18	.45	.42	.46	.47	.50	.33	1.55	.25	[illegible]	.13	[illegible]	.22	.60
12	1.50		1.10		1.18		1.19		1.45		.40		1.29		1.60		.70	
13								rain										
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23														.02				
24										rain								
25	.67		.45		.25		.09		.03									
26																		
27																		
28																		
29	.08	.08	* .23	.03	a .28	a .09	.09	.06	snow a .18	a .09	.14	.03	.01	.23		.36	.10	.06
30							.01		.03		rain .14							
31		.14		.11		.15		.16		.09		.11		.05		[illegible]		.10
TOTAL	3.34	.43	2.02	.72	2.00	.79	1.92	.85	2.41	.93	[illegible]	1.85	1.71	[illegible]	1.90	.72	1.12	.84

*Recording gages ** Gage read at 9:00 A.M. April, 1939 Gage read at 9:00 A.M.

STATION / DATE	NO. 40 7a.m.	NO. 40 7p.m.	NO. 39 7a.m.	NO. 39 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 41 7a.m.	NO. 41 7p.m.	NO. 42 7a.m.	NO. 42 7p.m.	NO. 27 7a.m.	NO. 27 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 24 7a.m.	NO. 24 7p.m.	NO. 43 7a.m.	NO. 43 7p.m.
1																		
2	.09		.10		.15		.11		.07		.07		[illegible]		.04		.07	
3																		
4		.46		.56		.49		.51		.61		.66		[illegible]		.70		.80
5	.09				[illegible]		.77		.06		[illegible]		[illegible]		.12		[illegible]	
6																		
7																		
8																		
9																		
10	.02		.01		.08		.13		.12		.27		[illegible]		.37		.33	
11																		
12																		
13																		
14																		
15	.12	.06	.09		.16	[illegible]	.14	.09	.19	.03	.22	.14	.22	.25	.13	.11	.30	.12
16	.04				[illegible]						.02			.01	[illegible]		.02	.14
17		.35		.23		.35		.34				.35		.17		.68	.03	
18			.04		.35		.10		.40		.15		.07		.03			
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26				.01														
27														.02			.04	
28																		
29																		
30																		
31																		
TOTAL	.36	.85	.24	.80	.71	.96	.55	1.04	.82	.64	.71	1.15	.62	1.01	.83	1.29	.91	1.04

*Recording gages

Form SCS-361 Page 3

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by W.S.
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Computed by W.T.W.
Checked by W.T.W.
Final check by W.T.W.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

23 stations - Tarkio River Watershed

PROJECT NO Ia-1 SHEET 9

MONTH OF March & April 1939 OF 40 SHEETS

DATE	NO. 45 7a.m.	NO. 45 7p.m.	NO. 44 7a.m.	NO. 44 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO. 46 7a.m.	NO. 46 7p.m.	NO. 47 7a.m.	NO. 47 7p.m.	NO.	NO. Daily Total	NO. Daily Average	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5	.10	.05	.12	.12		.17	.18		.22	.13		6.25	.27					
6						snow						.09						
7																		
8																		
9																		
10		.25										.03	.01					
11			.20	.03		.37	.10	.39	.40	.48		15.18	.60					
12	1.65		1.36		1.50		1.50		.66			25.65	1.12					
13						rain												
14																		
15																		
16																		
17												.02						
18																		
19																		
20																		
21																		
22																		
23												.03						
24						rain												
25			.11		.12		.10		.03			4.63	.20					
26																		
27																		
28						snow						.07	.03					
29	.08	.03	.07	.23		.20		.42	.06	.15		5.22	.22					
30			.02			rain			.02			.03						
31		.04		.01		.02		.12		.10		2.05	.12					
TOTAL	1.83	.37	1.93	.73	1.62	.76	2.18	.64	1.74	.80		60.42	2.64	Sum of Means				
	*Recording gages								April, 1939				2.44	Average of Totals				

DATE	NO. 45 7a.m.	NO. 45 7p.m.	NO. 44 7a.m.	NO. 44 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO. 46 7a.m.	NO. 46 7p.m.	NO. 47 7a.m.	NO. 47 7p.m.	NO.	NO. Daily Totals	NO. Daily Average	NO.	NO.	NO.	NO.	NO.
1												.01						
2	.05		.07		.02		.08		.08			2.26	.10					
3																		
4	.78	.03		.71		.60		.83		.83		12.34	.54					
5			.11		.30		.12		.05			1.57	.07					
6																		
7																		
8																		
9												.20	.06					
10	.32		.35		.13		.35		.33			2.25	.12					
11																		
12																		
13																		
14												.43	.02					
15	.30	.03	.31	.29	.25		.38	.05	.39	.07		7.10	.31					
16					.23				.02			.60	.03					
17		.40		.25		.10		.70		.28		7.34	.32					
18	.25		.14		.20		.16		.12			3.36	.15					
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26				.02						.03		.11	.01					
27			.06						.03			.14	.01					
28																		
29																		
30																		
31																		
TOTAL	1.70	.46	1.02	1.17	1.33	.70	1.09	1.58	1.02	1.21		38.42	1.69	Total of Averages				
	*Recording gages												1.67	Average of Totals				

Form SCS-251

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by W.S.
Checked by W.T.W.
Computed by W.T.W.
Checked by W.T.W.
Final check by W.T.W.

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1
12 stations - West Tarkio Creek Watershed
MONTH OF March & April 19 39 March, 1939

SHEET 10 OF 40 SHEETS

STATION / DATE	NO. 22 7a.m.	NO. 22 7p.m.	NO. 6 7a.m.	NO. 6 7p.m.	NO. 20 7a.m.	NO. 20 7p.m.	NO. 30 7a.m.	NO. 30 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 31 7a.m.	NO. 31 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.
1																		
2			NOTE: Stations listed in each watershed by location North to South															
3																		
4																		
5	.01	.16	.08	.16	.08	.18	.12	.26	.20	.19	.26	.26	a.17	a.18	.15	.16	.10	.13
6						snow												
7													"a" distributed by interpolation					
8																		
9																		
10						rain						.03		.05		.01		
11	.12	.46	a.21	a.48	.15	.39	.47	.20	1.13	.23	.41	.37	.25	.11	.21	.36	.26	.53
12	.68		a.82		.76		1.20		1.35		1.17		1.[illegible]		1.65		.92	
13				"a" distributed by interpolation														
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																.01		.05
24						rain												
25	.12		.34		.16		.15		.17		.19							
26																		
27																		
28						rain									.03			
29	.06	.26	a.09	a.22	.04	.03		.14	.03	.09	.01	.11		.11	.07	.15	.02	.11
30									.02		.01		.07		.02			
31		.05		.13		rain .27		.13		.10		.07		.10		.06		.04
TOTAL	.99	.93	1.54	1.04	1.17	.90	1.94	.73	2.95	.61	2.59	.86	2.19	.75	2.14	1.00	1.40	.85

a Recording gages + Gage read at 12 M April, 1939

STATION / DATE	NO. 22 7a.m.	NO. 22 7p.m.	NO. 6 7a.m.	NO. 6 7p.m.	NO. 20 7a.m.	NO. 20 7p.m.	NO. 30 7a.m.	NO. 30 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 31 7a.m.	NO. 31 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.
1																		
2	.05		.12		.09		.09		.08		.04		.05		.03		.03	
3																		
4		.29		.45		.52		.42		.56		.60		.45		.03		.09
5	.03				.04		.11		.03				.02		.02		.01	
6																		
7																		
8																		
9																		
10									.04		.02		.03		.03		.03	
11																		
12																		
13																		
14			.03		.05													
15	.26	.04	.23		.09	.01	.12		.12		.21	.31	.10		.34		.34	
16			.24						.02									
17		.34				.19		.05		.15		.31		.10		.13		.27
18	.14	.07	.20		.05		.24		.02		.01		.03		.01		.07	
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26						.02						.02				.01		
27	.03								.02				.03					
28																		
29																		
30																		
31																		
TOTAL	.56	.68	1.14	.45	.32	.74	.56	.34	.37	.71	.43	.94	1.03	.35	.70	.59	.23	1.07

a Recording gages

Form SCS-251 Page 2

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by W.S.
Checked by W.T.W.
Computed by W.T.W.
Checked by W.T.W.
Final check by W.T.W.

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. 1001 — 12 stations - West Tarkio Creek Watershed — SHEET 11 OF 40 SHEETS

MONTH OF March & April 1939 — March, 1939

DATE	NO. 32 Total	NO. 32 Total	NO. 21 Total	NO. 21 Total	NO. 23 Total	NO. 23 Total	NO.	NO. Daily Totals	NO. Daily Average	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5	.11	.15	.10	.8	.19	.10		3.52	.88									
6																		
7																		
8																		
9																		
10																		
11	.35	[illegible]	.38	[illegible]	.23	.37		[illegible]	[illegible]									
12	1.34		[illegible]		[illegible]			[illegible]	1.34									
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23				.12				.23	.02									
24				[illegible]														
25								1.12	[illegible]									
26																		
27																		
28																		
29	1.18	.06	[illegible]	[illegible]	[illegible]	.15		.04 2.33	.22									
30																		
31		.11	[illegible]			.27		1.10	.12									
TOTAL	2.38	[illegible]	1.[illegible]	[illegible]	1.[illegible]	.49		[illegible]	[illegible]	Total of Daily Averages								

*Recording gages *Gage read at 6:00 P.M. April, 1939 Gage read at 9:30 A.M.

DATE	NO. 32 Total	NO. 32 Total	NO. 21 Total	NO. 21 Total	NO. 23 Total	NO. 23 Total	NO.	NO. Daily Totals	NO. Daily Average	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2	.07		[illegible]		[illegible]			[illegible]	[illegible]									
3																		
4		.04		[illegible]		.12		[illegible]	[illegible]									
5	.03				[illegible]			.03	.05									
6																		
7																		
8																		
9																		
10	.03		.02		.08			2.[illegible]	.12									
11																		
12																		
13																		
14								[illegible]	[illegible]									
15	.11		.02		.08	.02		3.[illegible]	[illegible]									
16								.07	.04									
17		.40		.02		.21		2.97	.43									
18	.07		.07		.12			1.37	.16									
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26				.02		.02		.04	.02									
27			.02		.03			.35	.01									
28																		
29																		
30																		
31																		
TOTAL	1.02	1.24	1.51	1.25	1.24	1.27		[illegible]	[illegible]	Total of Daily Averages								

*Recording gages 2.39 Inches of Rain

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by W.S.
Checked by W.T.W.
Computed by W.T.W.
Checked by W.T.W.
Final check by W.T.W.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1

7 stations located in the proximity of Tarkio River and West Tarkio Creek Watershed

SHEET 12 OF 40 SHEETS

MONTH OF March & April 1939

March, 1939

DATE \ STATION	NO. 11 Near Westboro, Mo. 7a.m.	NO. 11 7p.m.	NO. 12 7a.m.	NO. 12 7p.m.	NO. 15 West Tarkio Creek 7a.m.	NO. 15 7p.m.	NO.	NO. 17 Tarkio, Mo. 7a.m.	NO. 17 7p.m.	NO. 18 Shenandoah, Ia. 7a.m.	NO. 18 7p.m.	NO.	NO. 19 Red Oak, Ia. 7a.m.	NO. 19 7p.m.	NO.	NO. 28 Clarinda, Ia. 8a.m.	NO. 28 5p.m.	NO.
1																		
2																		
3																		
4	.10			.12														
5		.07	.08		.06	.03		.05	.07		.23			.10		.20	.15	
6						snow												
7																		
8																		
9																		
10			.02	.14		rain												
11	.24	.88	.26	1.30				.16	.50	.53				.30		.23		
12	.54				1.67			1.40		1.74			.38			1.38		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23									.17									
24				.03		rain												
25								.13		.07			.22			.15		
26																		
27																		
28				.12	.30													
29		.23	.10	.05	snow			.04	.20		.25		.27	.10		.09	.03	
30																.02		
31		.18		.06	rain			.13						.12			.12	
TOTAL	.88	1.36	.46	1.82	2.03	.05		1.91	.94	2.39	.48		1.37	.62		2.12	.30	

April, 1939

DATE \ STATION	NO. 11 Near Westboro, Mo. 7a.m.	NO. 11 7p.m.	NO. 12 7a.m.	NO. 12 7p.m.	NO. 15 West Tarkio Creek 7a.m.	NO. 15 7p.m.	NO.	NO. 17 Tarkio, Mo. 7a.m.	NO. 17 7p.m.	NO. 18 Shenandoah, Ia. 7a.m.	NO. 18 7p.m.	NO.	NO. 19 Red Oak, Ia. 7a.m.	NO. 19 7p.m.	NO.	NO. 28 Clarinda, Ia. 8a.m.	NO. 28 5p.m.	NO.
1				.10		.10		.10										
2	.11				.04					.09						.02		
3				.02												.14		
4		.67	.02	.20	.03			.08	.15		.72			.39			.23	
5	.35		.75		.35			.35								.42		
6																		
7																		
8																		
9				.34														
10	.31				.22			.35		.09						.02		
11			.02						.05								.01	
12																		
13																		
14				.78														
15	.51	.19	.07	.07	.65			.90	.03	.25			.65			.66	.20	
16	.03							.10								.02		
17		.34	.34	.08					.49				.05	.29		.02	.41	
18	.13				.44			.07		.22			.06			.15		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26				.06														
27	.05															.01		
28																		
29																		
30																		
31																		
TOTAL	1.49	1.20	1.20	1.63	2.43	.10		2.55	.75	.75	.73		.76	.68		1.34	.90	

Form SCS-361

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by W.S.
Checked by W.T.W.
Computed by W.T.W.
Checked by W.T.W.
Final check by W.T.W.

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Iowa-1 SHEET 13 OF 40 SHEETS

MONTH OF May & June 1939

23 stations - Tarkio River Watershed
May, 1939

STATION / DATE	NO. 33 7a.m.	NO. 33 7p.m.	NO. 34 7a.m.	NO. 34 7p.m.	NO. 1 7a.m.	NO. 1 7p.m.	NO. 25 7a.m.	NO. 25 7p.m.	NO. 35 7a.m.	NO. 35 7p.m.	NO. 36 7a.m.	NO. 36 7p.m.	NO. 26 7a.m.	NO. 26 7p.m.	NO. 37 7a.m.	NO. 37 7p.m.	NO. 38 7a.m.	NO. 38 7p.m.
1																		
2																		
3			.03															
4	.01				.04				.05		.08		.05					
5																		
6																		
7	.03		.02		.01				.01									
8																		
9	NOTE: Stations listed in each Watershed by location North to South																	
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17								.65		.97		.43		.69		1.07		.10
18							.02						.13				.01	.01
19																		
20																		
21																		
22																		
23																		
24																		
25		.19		.20		.58		.40		.23		.57		.53		.67		.72
26	.41		.30		.25	.43	.10		.12	.46	.12	.07		.05		.12		
27			.06									.05		.07		.59	.01	.01
28																		
29												.01						
30																		
31																		
TOTAL	.45	.32	.41	.20	.30	1.01	.12	.26	.18	.81	.20	1.18	.13	1.44		1.93	.02	.02

*Recording gages

STATION / DATE	NO. 33 7a.m.	NO. 33 7p.m.	NO. 34 7a.m.	NO. 34 7p.m.	NO. 1 7a.m.	NO. 1 7p.m.	NO. 25 7a.m.	NO. 25 7p.m.	NO. 35 7a.m.	NO. 35 7p.m.	NO. 36 7a.m.	NO. 36 7p.m.	NO. 26 7a.m.	NO. 26 7p.m.	NO. 37 7a.m.	NO. 37 7p.m.	NO. 38 7a.m.	NO. 38 7p.m.
1																		
2	.09	.31	.15	.26	.04	.34	.35	.30	.24	.30	.11	.30	.32	.42	.27	.37	.22	.51
3																		
4																		
5																		
6																		
7		1.02		.12		1.01		1.25		1.20		2.06		2.50		2.59		2.29
8	.04		.07															
9	.52		.43		.31		.30		.28		.26		.38		.43		.45	
10	.27	.23	.21	.36	.17	.67	.18	.83	.19	.75	.20	.66	.30	.41	.32	.44	.29	.32
11																		
12																		
13	.67		.71		.46		.68		.85		.62		.56		.44		.43	.42
14																		
15																		
16																		
17																		
18		.20								.67		1.05				1.04		
19	.77	.02	1.10	.03	1.20	.03	1.30	.25	.70	.10	.55	.05	1.87	.07	.52	.10	1.49	.32
20																		
21	.91		1.20	.03	1.33		1.08		1.19	.05	.38		1.18	.06	1.12	.65	1.17	
22	1.34		.71		1.14		.68		.42		.80		.61				.81	
23																		
24																		
25		.13		.42	.10	.27	.22	.24	.14	.31	.13	.20	.38		.45		.27	.15
26																		
27																		
28		.45		.14		.02		.33		.16		.42						
29																		
30																		
31																		
TOTAL	4.61	2.35	4.58	2.20	4.95	2.34	4.79	3.20	4.01	3.64	3.75	4.72	5.61	3.46	3.55	5.08	5.12	3.57

*Recording gages

Form SCS-351 Page 2

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by W.S.
Checked by W.T.W.
Computed by W.T.W.
Checked by W.T.W.
Final check by W.T.W.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 23 stations - Tarkio River Watershed SHEET 14

MONTH OF May & June 1939 May, 1939 OF 40 SHEETS

STATION / DATE	NO. 40 7a.m.	NO. 40 7p.m.	NO. 39 7a.m.	NO. 39 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 41 7a.m.	NO. 41 7p.m.	NO. 42 7a.m.	NO. 42 7p.m.	NO. 27 7a.m.	NO. 27 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 24 7a.m.	NO. 24 7p.m.	NO. 43 7a.m.	NO. 43 7p.m.
1																	.02	.04
2																		
3														.01				
4	.02		.01		.05		.03		.23				.02		.12			
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17		.01		.04						.21				.01				.03
18									.05				.07		.03		.10	
19																		
20																		
21																		
22						.01		.01					.02				.02	
23																		
24																		
25		1.00		.02		.99		1.53		1.34		.03		1.07		.25		1.00
26		.02				.01		.15	.36			.11		.10		.05		.15
27	.04				.05			.02		.03		.03						
28																		
29																		
30																		
31																		
TOTAL	.06	1.03	.01	[illegible]	.10	1.01	[illegible]	[illegible]	[illegible]	[illegible]		1.02	.11	1.19	.17	.90	.14	1.22

*Recording gages

STATION / DATE	NO. 40 7a.m.	NO. 40 7p.m.	NO. 39 7a.m.	NO. 39 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 41 7a.m.	NO. 41 7p.m.	NO. 42 7a.m.	NO. 42 7p.m.	NO. 27 7a.m.	NO. 27 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 24 7a.m.	NO. 24 7p.m.	NO. 43 7a.m.	NO. 43 7p.m.
1																		
2	.23	.65	.31	.36	.29	.62	.31	.36	.42	.43	.20	.27	.28	.35	.13	.40	.15	.44
3																		
4																		
5																		
6																		
7		1.74		1.45		1.08		1.13		.65		.75		.53		.65		.57
8	.02																	
9	.73		.84		1.30		1.23		1.95		1.35		2.24		1.10		.95	
10	.35	.27	.73		.45	.23	.42	.15	.49	.18	.49	.31	.51	.33	.54	.39	.48	.38
11																		
12																		
13	.58		.87		.47	.01	.71		.58		.68		.67		.60		.24	
14																		
15																		
16																		
17																		
18				1.54				.75				.42		.43				
19	1.48	.15	.09		1.43		.59	.03	1.28		.53	.10	.75	.52	1.03		1.08	
20																		
21	1.36	.07	1.49		1.54	.05	1.03	.09	1.67	.07	1.39	.11	1.42	.28	1.51	.15	1.55	.09
22	.94		.71		.64		.42		.40		.43		.57		.46		.55	
23																		
24																		
25	.53	.09	.58	.05	.54		.51	.06	.52		.57	.13	.49	.26	.55	.31	.58	.45
26																		
27																		
28																		
29						.03		.22		.04								
30																		
31																		
TOTAL	6.27	2.77	5.52	3.60	6.76	1.82	5.28	2.78	7.11	1.37	5.64	2.29	6.72	1.78	6.02	1.90	5.58	1.93

*Recording gages

Form SCS-251 Page 3

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by W.S.
Checked by W.T.W.
Computed by W.T.W.
Checked by W.T.W.
Final check by W.T.W.

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 — 23 stations - Tarkio River Watershed — SHEET 15 OF 40 SHEETS

MONTH OF May and June 1939 — May, 1939

STATION / DATE	NO.45 7a.m.	NO.45 7p.m.	NO.44 7a.m.	NO.44 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO. 46 7a.m.	NO. 46 7p.m.	NO. 47 7a.m.	NO. 47 7p.m.	NO.	NO. Daily Totals	NO. Daily Average	NO.	NO.	NO.	NO.	NO.
1												.02						
2																		
3			.01					.23				.08						
4			.02				.64		.08			.72	.03					
5																		
6																		
7									.03			.10						
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17		.48		.05		.40				.29		4.03	.18					
18	.12		.20		.13		.32		.20			1.21	.05					
19																		
20																		
21																		
22			.03						.01	.01		.11						
23																		
24																		
25		1.20		1.06		.93		.59		.03		18.42	.82					
26		.35				.13		.60		.08		4.24	.18					
27		.05	.01	.01		.13		.24	.02	.25		1.17	.05					
28																		
29			.01	.01								.03						
30																		
31																		
TOTAL	.12	2.08	.19	1.11	.13	1.59	.83	1.75	.39	1.55		[illegible].37	1.31	Total of Daily Averages				

*Recording gages — June, 1939 — 1.33 Average of Daily Totals

STATION / DATE	NO. 45 7a.m.	NO. 45 7p.m.	NO. 44 7a.m.	NO. 44 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO. 46 7a.m.	NO. 46 7p.m.	NO. 47 7a.m.	NO. 47 7p.m.	NO.	NO. Daily Totals	NO. Daily Average	NO.	NO.	NO.	NO.	NO.
1																		
2	.10	.16	.33	.27	.14		.03	.33	.18	.20		12.20	.53					
3																		
4																		
5																		
6																		
7		.83		.40		.57		.42		.55		26.27	1.14					
8												.13	.01					
9	1.10		1.10		1.10		1.00		1.31			20.76	.90					
10	.44	.63	.56	.31	.47	.37	.34	.47	.36	.68		18.24	.79					
11																		
12																		
13	.25		.16		.20		.06		.03			11.65	.51					
14																		
15																		
16																		
17																		
18								.46		.13		6.92	.31					
19	1.19	.04	1.03	.07	1.11		.59		.53	.06		23.71	1.03					
20										.07		.03						
21	1.62	.12	1.48	[illegible]	[illegible]		1.32	.14	[illegible]	.12		[illegible]	1.43					
22	.60		.83	.02	1.26		1.08		1.36			18.96	.74					
23																		
24																		
25	.46	.20	.16	1.26		1.27	.55		.38	.13		13.85	.60					
26																		
27																		
28																		
29												1.52	.07					
30										.23		.52	.02					
31																		
TOTAL	5.77	1.98	5.63	2.32	5.68	2.21	5.17	1.87	6.10	2.16		185.56	8.07	Total of Daily Averages				

*Recording gages — Average of Station totals 8.07

Form SCS-151

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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Computed by W.T.W.
Checked by W.T.W.
Final check by W.T.W.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 — 12 stations- West Tarkio Creek Watershed — SHEET 16 OF 40 SHEETS

MONTH OF May and June 1939 — May, 1939

STATION / DATE	NO. 22 7a.m.	NO. 22 7p.m.	NO. 6 7a.m.	NO. 6 7p.m.	NO. 20 7a.m.	NO. 20 7p.m.	NO. 30 7a.m.	NO. 30 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 31 7a.m.	NO. 31 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.
1																		
2																		
3												.02				.01		
4	.02	.01			.03				.10									
5																		
6																		
7	.01														.01			
8																		
9				ECFZ: Stations listed in each [illegible] by location [illegible] to [illegible]														
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17		.24		.75		.93		.35		[illegible]						.10		
18	.01		.07		.07				.10		[illegible]		.34		.10		.45	
19																		
20																		
21															.05			
22									[illegible]		[illegible]			[illegible]				
23																		
24																		
25		.78		.76		1.22		.74		.99		.01		1.15		.70		.16
26	.34	.02	.19		.13	.02				.10		.20		.65		.52		.70
27							.05		.07			.08				.12	.04	.41
28																	.03	
29		.01																
30																		
31																		
TOTAL	.38	1.06	.26	1.51	.23	2.17	.05	1.69	.23	1.97	.05	1.11	.34	1.83	.16	1.75	.52	1.57

*Recording gages

June, 1939

STATION / DATE	NO. 22 7a.m.	NO. 22 7p.m.	NO. 6 7a.m.	NO. 6 7p.m.	NO. 20 7a.m.	NO. 20 7p.m.	NO. 30 7a.m.	NO. 30 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 31 7a.m.	NO. 31 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.
1																		
2	.22	.47	.28	.36	.15	.30	.17	.45	.13	.41	.08	.23	.47	.30	.22	.35	.09	.27
3																		
4																		
5																		
6																		
7		1.00		1.90		1.62		1.34		.53		.57		.70		.46		.77
8		.02	.06		.05	.03												
9	.27	.04	.27		.23		.65		1.06		1.[illegible]		1.40		1.28		1.13	
10	.13	.66	.22	.86	.26	.60	.31	.68	.45	.48	[illegible]		.35	.40	.40	.40	.30	.68
11																		
12																		
13	.07	.60	1.34	.06	.53	.01	.54	.06	.48	.08	.39	.01	.55		.35		.10	
14																		
15																		
16																		
17																		
18		.50				.50						.41		.09				.72
19	1.34		1.15	.84	1.37	.07	1.59	.03	1.[illegible]	.34	1.[illegible]		1.[illegible]		1.[illegible]	.44	.82	
20																		
21	1.20		1.46	.06	1.10		1.18	.08	1.56	.03	1.[illegible]		1.35	.13	1.45	.20	1.37	
22	.28	.06	.42		.54		.72		.70		.58		.70		.[illegible]		1.03	
23																		
24																		
25	.09	.36	.41	.06	.29	.11	.47	.04	.41	.12	.44	.11	.51		.54		.59	.44
26																		
27																		
28		.05																
29		.03								.05								
30																		
31																		
TOTAL	3.70	3.79	5.61	4.14	4.52	3.24	5.63	2.68	6.60	1.79	6.07	1.53	6.01	2.00	6.53	1.55	5.20	2.88

*Recording gages

Form SCS-351 Page 2

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by W.S.
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Computed by W.T.W.
Checked by W.T.W.
Final check by W.T.W.

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. [illegible] SHEET 17

MONTH OF May and June 19 39 — 12 stations - West Tarkio Creek Watershed May, 1939 — OF 40 SHEETS

DATE \ STATION	NO. 32 7a.m.	NO. 32 7p.m.	NO. 21 7a.m.	NO. 21 7p.m.	NO. 23 7a.m.	NO. 23 7p.m.	NO.	NO. Daily Totals	NO. Daily Averages	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3			.04	.03				.10	.01									
4					.01			.17	.01									
5																		
6																		
7			.03		.03			.03	.01									
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17		.60		[illegible]				4.50	.38									
18	.66		1.27	.01	.52			3.46	.29									
19																		
20																		
21																		
22	[illegible]		[illegible]					[illegible]										
23																		
24																		
25		.17		.61		1.32		9.03	.03									
26		.13		.03		.02		[illegible]	.24									
27	.02	[illegible]	.12	[illegible]		.04		[illegible]	[illegible]									
28	.01							.01										
29						.02		.01										
30																		
31																		
TOTAL	.74	3.18	1.54	1.66	.99	1.28		24.77	1.13	Total of Daily Averages								
	[illegible]									Average of Daily Totals								
	[illegible]									[illegible], 1939								

DATE \ STATION	NO. 32 7a.m.	NO. 32 7p.m.	NO. 21 7a.m.	NO. 21 7p.m.	NO. 23 7a.m.	NO. 23 7p.m.	NO.	NO. Daily Totals	NO. Daily Averages	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		7.61	.62									
3																		
4																		
5																		
6																		
7		.48		.15		.20		10.71	.23									
8								.16	.01									
9	1.[illegible]		[illegible]		.46			11.02	.22									
10	.21	.73	[illegible]	[illegible]	[illegible]	.51		10.01	.30									
11																		
12																		
13	.56		[illegible]		[illegible]			5.[illegible]1	.44									
14																		
15																		
16																		
17																		
18		.09		[illegible]		.40		4.56	.40									
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]									
20																		
21	1.[illegible]	.32	2.60	.30	1.24	.30		16.97	1.41									
22	1.[illegible]		1.60		.52			[illegible]	.56									
23																		
24																		
25	.55	.15	.52	[illegible]	.56	.15		7.[illegible]	.60									
26																		
27																		
28								.05										
29								.02	.01									
30																		
31																		
TOTAL	6.12	2.64	5.75	2.74	5.22	1.72		92.04	8.17	Sum of Daily Averages								
	Recording gages									[illegible] Daily Totals								

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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Final check by W.T.W.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Harrandsah, Iowa

PROJECT NO. Ia-1 — 6 stations - West Tarkio Creek Watershed — SHEET 18 OF 40 SHEETS

MONTH OF May and June 1939 — May, 1939

DATE \ STATION	NO. 29* 7a.m.	NO. 29* 7p.m.	NO.	NO. 48* 7a.m.	NO. 48* 7p.m.	NO.	NO. 49 7a.m.	NO. 49 7p.m.	NO.	NO. 50 7a.m.	NO. 50 7p.m.	NO.	NO. 51 7a.m.	NO. 51 7p.m.	NO.	NO. 52 7a.m.	NO. 52 7p.m.	NO.
1																		
2					Record on all these gages starts May 7, 1939													
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17		.16			.14			.30			.[illegible]			.[illegible]			1.15	
18	.06						.09			.[illegible]1			.[illegible]			.05		
19																		
20											.[illegible]							
21																		
22	.04									.[illegible]								
23																		
24																		
25		.82			1.[illegible]		.90				.[illegible]			.[illegible]			1.25	
26		1.31			.13			1.25			.16		.[illegible]			.10	.05	
27																	.04	
28													.[illegible]					
29																		
30																		
31																		
TOTAL	.10	2.29			1.34		.99	1.45		.12	1.11		.62	1.67		.15	2.49	

*Recording gages

June, 1939

DATE \ STATION	NO. 29* 7a.m.	NO. 29* 7p.m.	NO.	NO. 48* 7a.m.	NO. 48* 7p.m.	NO.	NO. 49 7a.m.	NO. 49 7p.m.	NO.	NO. 50 7a.m.	NO. 50 7p.m.	NO.	NO. 51 7a.m.	NO. 51 7p.m.	NO.	NO. 52 7a.m.	NO. 52 7p.m.	NO.
1																		
2	.08	.33		.08	.28			.36		.[illegible]	.56		.50	.40		.15	.[illegible]	
3																		
4																		
5																		
6																		
7		.93			2.23			.20			.66			1.[illegible]			1.[illegible]	
8																.10		
9	1.53			.72			1.60			1.[illegible]			.[illegible]			.07		
10	.[illegible]	.67		.20			.22	.43		.[illegible]7	.[illegible]0		.[illegible]	.[illegible]		.[illegible]	.51	
11																		
12																		
13	.76			.28			.31			.05			.35			.07		
14																		
15																		
16																		
17																		
18		.07			.10			.10						.[illegible]			1.02	
19	.41	.25		.[illegible]2			.22	.35		1.[illegible]5	.[illegible]2		.[illegible]	.[illegible]		.[illegible]		
20																		
21	1.44	.12		1.21	.10		1.42	.22		1.55	.08		1.32	.05		1.23	.07	
22	1.[illegible]			.[illegible]			.35			.[illegible]			.[illegible]			.57		
23																		
24																		
25	.50	.08		.48			.50			.[illegible]			.31	.16		.62		
26																		
27																		
28														.[illegible]				
29																		
30																		
31																		
TOTAL	6.26	2.[illegible]5		4.52	3.[illegible]		6.28	2.[illegible]		4.[illegible]	1.41		4.32	4.[illegible]		4.[illegible]	3.55	

*Recording gages

Form SCS-361

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by W.S.
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Checked by W.T.W.
Final check by W.T.W.

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1

7 stations located in the proximity of Tarkio River and West Tarkio Creek Watersheds

SHEET 19 OF 40 SHEETS

MONTH OF May and June 1939

May, 1939

DATE \ STATION	NO. 11 Near Tarkio	NO. 11 Tarkio	NO. 12 Tarkio	NO. 12 Tarkio	NO. 15 West Tarkio Creek	NO. 15 Tarkio	NO.	NO. 17 Tarkio, Ia.	NO. 17 Tarkio	NO.	NO. 18 Shenandoah,	NO. 18 Shenandoah,	NO. Ia.	NO. 19 Red Oak, Ia.	NO. 19 Red Oak, Ia.	NO.	NO. 28 Clarinda,	NO. 28 Clarinda,
	Tarkio	Tarkio	Tarkio	Tarkio	Tarkio	Tarkio		Tarkio	Tarkio		Tarkio	Shenandoah		Tarkio	Shenandoah		Clarinda	Shenandoah
1																		
2																		
3	.08		.03								.03	.06						.02
4																	.03	
5																		
6																		
7																	.01	
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17												.75						
18	.85			.32	.27			.09			.10						.04	.01
19																		
20									.03									
21																		
22	.06		.06															
23																		
24																		
25		.78		.84		1.25		1.67				.65			1.01			1.74
26		.85		1.07								.03		.27				.02
27		.03	.01	.03		.11		.20	.28					.08	.03		.01	
28	.06																.03	
29																		
30																		
31																		
TOTAL	1.03	2.66	.08	1.53	.27	1.36		1.96	.31		.13	1.52		.35	1.04		.12	1.72

June, 1939

DATE \ STATION	NO. 11 Near Tarkio	NO. 11 Tarkio	NO. 12 Tarkio	NO. 12 Tarkio	NO. 15 West Tarkio	NO. 15 Tarkio, Cr.	NO.	NO. 17 Tarkio, Ia.	NO. 17 Tarkio	NO.	NO. 18 Shenandoah,	NO. 18 Shenandoah,	NO. Ia.	NO. 19 Red Oak, Ia.	NO. 19 Red Oak, Ia.	NO.	NO. 28 Clarinda,	NO. 28 Clarinda,
	Tarkio	Tarkio	Tarkio	Tarkio	Tarkio	Tarkio		Tarkio	Tarkio		Tarkio	Shenandoah		Tarkio	Shenandoah		Clarinda	Shenandoah
1																		
2	.51	.27	.44	[illegible]	[illegible]	[illegible]		[illegible]	.31		.15	.50		.35			.55	.31
3																		
4																		
5																		
6																		
7		.35		.20	.46				.09			.31			.90			1.14
8																		
9	.50		.29		.40			.52			2.10			.29			1.55	
10	.52	.72	.65	.03		.53		1.33	.12		.36	.27		.16	.29		.77	.34
11																		
12									.03									
13	.05		.30		.25						.61			.83			.65	
14																		
15			.01															
16																		
17																		
18		1.03		[illegible]											.98			
19	.63		.44	[illegible]	1.40			.74			1.46	.01		.57			1.33	.02
20		.03																
21	[illegible]		1.[illegible]	.11	[illegible]			1.[illegible]	.30		1.47			1.35	.07		1.[illegible]	.14
22	1.22		.71		.64			.28			.34			.40			.57	
23																		
24																		
25	.56	.11	.52		.58	.15		.54				.60		.36	.07		.55	.58
26																		
27																		
28																		
29				.01														.14
30																		
31																		
TOTAL	4.52	2.56	4.66	1.53	5.67	.58		5.44	.87		6.69	2.19		4.31	2.31		7.87	2.94

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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Final check by: E.S.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration ~~Project~~ LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1

Tarkio River Watershed

SHEET 20 OF 40 SHEETS

MONTH OF July and August 1939

July, 1939

STATION / DATE	NO. 33* 7a.m.	NO. 33 7p.m.	NO. 34 7a.m.	NO. 34 7p.m.	NO. 1* 7a.m.	NO. 1 7p.m.	NO. 25 7a.m.	NO. 25 7p.m.	NO. 35 7a.m.	NO. 35 7p.m.	NO. 36* 7a.m.	NO. 36 7p.m.	NO. 26 7a.m.	NO. 26 7p.m.	NO. 37 7a.m.	NO. 37 7p.m.	NO. 38* 7a.m.	NO. 38 7p.m.
1	.02		.03						.05		.03		.02				.02	
2																		
3																		
4	.56		.95		.91		1.33		1.10		.90		.60		1.04		1.40	
5	2.12		1.90		1.92		1.63		2.28		2.40		1.68		.60		.35	
6																		
7												.06						
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15													.15		.06		.27	
16																		
17	.49		.39	.04	.45		.41		.33		.35		.44		.50		.31	
18																		
19																		
20	.04		.05		.03		.24		.04		.02				.04		.16	
21																		
22																		
23																		
24																		
25	.99		1.03		.92		1.17		1.04		.97		.95		1.37		1.33	
26																		
27																		
28	.66		1.00		.67		.91		.99		.67		.29				.08	
29																		
30																		
31																		
TOTAL	4.88		5.35	.04	4.90		5.48		5.83		5.34	.06	4.33		3.59		3.92	

*Recording gage

NOTE: Stations listed in each Watershed by location North to South.

August, 1939

STATION / DATE	NO. 33* 7a.m.	NO. 33 7p.m.	NO. 34 7a.m.	NO. 34 7p.m.	NO. 1* 7a.m.	NO. 1 7p.m.	NO. 25 7a.m.	NO. 25 7p.m.	NO. 35 7a.m.	NO. 35 7p.m.	NO. 36* 7a.m.	NO. 36 7p.m.	NO. 26 7a.m.	NO. 26 7p.m.	NO. 37 7a.m.	NO. 37 7p.m.	NO. 38* 7a.m.	NO. 38 7p.m.
1		.88		.45		.44	.55		.	.50		.54		.36				.48
2	.15		.08		.25		.09		.03						.23			
3																		
4																		
5															.13			
6	.17		.32		.18		.16		.11		.12		.18				.09	
7		.21		.81		1.09		1.43		1.12		.83		.52		.60		.53
8	.20	.07	.35	.02	.28	.06	.50		.40		.50		.69		.70		.67	
9																		
10		1.44		1.40		2.10		2.50		2.00		1.38		.56	.45	.45		.34
11															.05			
12	.10		.10		.01				.05		.02	.02	.06				.06	
13																		
14																		
15				.05						.03								
16	.01	1.52	.44	1.20	.54	.89	.18	.68	.16	.29	.01	.56	.04	.40		.43	.01	
17																		
18		.12																
19	.06		.09				.20		.22		.31		.12				.06	
20	.01	.04	.04	.01						.01			.19			.17	.14	.01
21																		
22	.44	.10	.25	.13	.35	.12			.39	.09	.33	.11	.49	.09			.43	.06
23															.43	.12		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	1.14	4.38	2.07	4.07	1.61	4.70	1.68	4.61	1.36	4.04	1.29	3.44	1.77	1.93	1.93	1.77	1.46	1.42

*Recording gage

*Reading taken at 7:30 A.M.

Form SCS-361

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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Final check by: E.S.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 — 23 stations-Tarkio River Watershed — SHEET 21 OF 40 SHEETS

MONTH OF July & August 1939 — July, 1939

DATE	NO. 40 7a.m.	NO. 40 7p.m.	NO. 39 7a.m.	NO. 39 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 41* 7a.m.	NO. 41 7p.m.	NO. 42* 7a.m.	NO. 42 7p.m.	NO. 27 7a.m.	NO. 27 7p.m.	NO. 4* 7a.m.	NO. 4 7p.m.	NO. 24 7a.m.	NO. 24 7p.m.	NO. 43 7a.m.	NO. 43 7p.m.
1	.10		.33		.46		.42		.46		.53		.23		.37		.27	
2																		
3																		
4	2.30		2.64		2.23		2.11		1.68		1.31		1.10		1.38		.93	
5	.38		.31		.29		.38		.45		.31		.34		.09		.06	
6																		
7								.01						.02				
8																		
9																		
10																		
11																		
12																		
13																		
14	.13		.01														.01	
15																		
16																		
17	.40		.35		.43		.49		.35		.49		.44		.50		.42	
18																		
19																	.13	
20	.11		.29		.15		.26		.48		.31		.20		.52			
21																		
22																		
23																		
24																		
25	.93		1.03		.68		.85		.83		.75		.34		.82		.81	
26																		
27																		
28	.32		.19		.40		.20		.40		.20		.55		.17		.43	
29																		
30																		
31																		
TOTAL	4.67		4.95		4.69		4.51	.01	4.65		3.90		3.70	.02	3.85		3.05	

*Recording gages

August, 1939

DATE	NO. 40 7a.m.	NO. 40 7p.m.	NO. 39 7a.m.	NO. 39 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 41* 7a.m.	NO. 41 7p.m.	NO. 42* 7a.m.	NO. 42 7p.m.	NO. 27 7a.m.	NO. 27 7p.m.	NO. 4* 7a.m.	NO. 4 7p.m.	NO. 24 7a.m.	NO. 24 7p.m.	NO. 43 7a.m.	NO. 43 7p.m.
1		.23		.01		.31		.23		.27		.33		.19		.25		
2																		
3																		
4																		
5																		
6	.15		.18		.22		.29		.40		.32		.03		.13		.24	
7		.32	.17	.07		.30		.31		.31		.29		.23		.23		.13
8	.81	.05	.70		.23		.99	.06	.85		1.03		.52		1.11		1.13	
9																		
10		.25		.17		.09		.01		.10		.05		.04		.06		.07
11																		
12	.07		.06		.05		.05		.05		.09		.10		.12		.16	
13																		
14																		
15						.02												
16	.02		.03										.02					
17																		
18																		
19							.02											
20	.02		.02					.02			.05			.03		.07		.06
21																		
22	.26	.11	.34		.19	.14	.34	.11	.33	.10	.24	.09	.12	.13	.20	.19	.31	.27
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	1.33	1.01	1.51	.85	1.29	.86	1.69	.73	1.63	.78	1.78	.76	1.21	.67	1.56	.85	1.64	.59

*Recording gages

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by: W.S.
Checked by: W.T.W.
Computed by: W.S.
Checked by: W.T.W.
Final check by: F.S.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 — 23 stations - Tarkio River Watershed — SHEET 22 OF 40 SHEETS

MONTH OF July & August Ia 39 — July, 1939

DATE \ STATION	NO. 45 7a.m.*	NO. 45 7p.m.	NO. 44 7a.m.*	NO. 44 7p.m.	NO. 5 7a.m.*	NO. 5 7p.m.	NO. 46 7a.m.*	NO. 46 7p.m.	NO. 47 7a.m.*	NO. 47 7p.m.	NO.	NO. Daily Totals	NO. Daily Averages	NO.	NO.	NO.	NO.	NO.
1	.22		.25		.22		.18		.19			4.24	.18					
2																		
3																		
4	1.30		1.50		1.81		1.49		1.63			32.45	1.41					
5	.15		.09		.08		.05		.03			17.88	.78					
6																		
7												.09	.00					
8																		
9																		
10																		
11																		
12																		
13																		
14												.61	.03					
15																		
16																		
17	.46		.43		.36		.41		.24			9.53	.41					
18																		
19	.32											.45	.02					
20			.26		.18		.27		.09			3.34	.15					
21																		
22																		
23																		
24																		
25	.98		1.02		1.23		1.26		1.13			22.93	1.00					
26																		
27	1.27											1.27	.06					
28			.42		.56		.26		.81			10.18	.44					
29																		
30																		
31																		
TOTAL	4.79		3.97		4.44		3.92		4.12			102.87	4.48	Total of Daily Averages				
	*Recording gages												4.47	Average of Daily Totals				

August, 1939

DATE \ STATION	NO. 45 7a.m.*	NO. 45 7p.m.	NO. 44 7a.m.*	NO.44 7p.m.	NO. 5 7a.m.*	NO. 5 7p.m.	NO.46 7a.m.*	NO.46 7p.m.	NO.47 7a.m.*	NO.47 7p.m.	NO.	NO. Daily Totals	NO. Daily Averages	NO.	NO.	NO.	NO.	NO.
1		.06		.26		.13				.10		7.01	.30					
2												.83	.04					
3																		
4												.13	.01					
5																		
6	.08		.06		.08		.09		.08			3.51	.15					
7		.27		.50		.22		.38		.40		11.63	.51					
8	1.46		1.03	.07	1.34		1.75	.12	1.20			19.94	.87					
9																		
10		.08		.06		.05		.14		.05		13.84	.60					
11			.03						.01			.09						
12	.23		.19		.28		.19		.16			2.22	.10					
13																		
14						.02						.02						
15								.05		.03		.18	.01					
16	.02											7.85	.34					
17																		
18												.12	.01					
19												1.08	.05					
20				.04		.05				.05		1.23	.05					
21																		
22	.31	.23	.14	.24	.12	.09	.17	.16	.13	.04		8.48	.37					
23												.55	.02					
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	2.10	.64	1.45	1.17	1.82	.56	2.20	.85	1.58	.67		78.51	3.42	Total of Daily Averages				
	*Recording gages												3.41	Average of Daily Totals				

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by W.S.
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Computed by W.S.
Checked by W.T.W.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 — 12 stations - West Tarkio Creek Watershed — SHEET 23 OF 40 SHEETS

MONTH OF July & August 1939 — July, 1939

DATE	NO. 22 7a.m.	NO. 22 7p.m.	NO. 6 7a.m.	NO. 6 7p.m.	NO. 20 7a.m.	NO. 20 7p.m.	NO. 30 7a.m.	NO. 30 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 31 7a.m.	NO. 31 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.
1	.42		.23		.04		.15		.54		.42		.25	.03	.20		.22	.01
2																		
3																		
4	1.08	.04	.56		.73		1.86		2.00		1.58		.80		.51		1.39	
5	2.42		2.25		1.10		.28		.19		.25	.02	.25		.19			
6																		
7		.01		.09														.02
8																		
9			NOTE: Stations listed in each Watershed by location North to South															
10																		
11																		
12																		
13																		
14	.06		.13		.09				.02									
15																		
16																		
17	.35		.33		.36		.47		.33		.35		.48		.44		.53	
18																		
19																		
20	.04		.14		.12		.31		.65		.23		.50		.53		.26	
21																		
22																		
23																		
24																		.08
25	1.05		.80		1.26		.93		1.14		1.13		1.39		1.42		1.05	
26																		
27																		
28	.80		.55		.41		.07		.28		.37		.98		.36		.36	
29																		
30																		
31																		
TOTAL	5.82	.05	4.86	.09	4.01		4.07		5.15		4.33	.02	4.65	.03	3.75		3.87	.11

*Recording gages

August, 1939

DATE	NO. 22 7a.m.	NO. 22 7p.m.	NO. 6 7a.m.	NO. 6 7p.m.	NO. 20 7a.m.	NO. 20 7p.m.	NO. 30 7a.m.	NO. 30 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 31 7a.m.	NO. 31 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.
1		.23		.13		.11		.14		.15		.13		.06		.05		.01
2																		
3																		
4																		
5																		
6	.08	.01	.15		.32		.11		.32		.06				.06		.05	
7		.99		.91		.81		.67		.44		.43		.51		.48		.23
8	.40	.07	.56		.43	.03	.97	.01	.75		.76		1.04		.89		1.61	
9																		
10		1.59		1.63		.69		.49		.10		.05				.06		.04
11																	.01	
12	.04		.05		.03		.07		.10		.04		.33		.19		.12	
13																		
14																		
15		.02										.02						
16		.33	.06			.02	.04		.03		.16				.04		.02	
17																		
18																		
19	.02	.01	.19	.10	.49		.04											
20	.03	.02			.12					.03		.02			.01			.04
21																		
22	.54	.10	.40	.11	.37	.10	.42		.15	.07	.17	.11	.25	.15	.24	.13	.12	.18
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	1.16	3.32	1.41	2.94	1.21	1.76	1.35	1.31	1.35	.79	1.19	.76	1.44	.72	1.43	.72	1.93	.50

*Recording gages

Form SCS-261

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by W.S.
Checked by W.T.W.
Computed by W.S.
Checked by W.T.W.
Final check by W.T.W.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Iowa

12 stations - West Tarkio Creek Watershed

MONTH OF July and August 1939 — July, 1939

SHEET 24 OF 40 SHEETS

DATE \ STATION	NO. 32 7a.m.	NO. 32 7p.m.	NO. 21 7a.m.	NO. 21 7p.m.	NO. 23 7a.m.	NO. 23 7p.m.	NO.	NO. Daily Totals	NO. Daily Average	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1	.35		.32	.04	.34	.02		3.06	.26									
2																		
3																		
4	.85		.45		.53			12.38	1.03		NOTE: Stations listed in each watershed							
5	.62		.02		.03			7.02	.58		by location North to South							
6																		
7								.12	.01									
8																		
9																		
10																		
11																		
12																		
13																		
14								.02	.02									
15																		
16																		
17	.54		.52		.39			5.14	.43									
18																		
19																		
20								[illegible]	.26									
21																		
22																		
23																		
24																		
25	1.10		1.15		.02			13.24	1.10									
26																		
27																		
28	.60		.53		.11			5.12	.45									
29																		
30																		
31																		
TOTAL	3.46		2.99	.04	2.22	.02		49.54	4.13	Total of Daily Averages / Total of Daily Totals								

Recording gages

August, 1939

DATE \ STATION	NO. 32 7a.m.	NO. 32 7p.m.	NO. 21 7a.m.	NO. 21 7p.m.	NO. 23 7a.m.	NO. 23 7p.m.	NO.	NO. Daily Totals	NO. Daily Average	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1		[illegible]		.02		.04		[illegible]	[illegible]									
2																		
3																		
4																		
5																		
6	.05		.04		.06			1.11	.09									
7		.03		.02		1.12		[illegible]	[illegible]									
8	1.95		1.77		2.27			13.16	1.10									
9																		
10		.03		.02		.02		[illegible]	.32									
11								[illegible]										
12	.29		.16		.13			1.31	.11									
13																		
14																		
15						.03		.07	.01									
16	.05		.02		.03			.30	.07									
17																		
18																		
19																		
20		.04	.03	.04	.05			.53	.04									
21								[illegible]	[illegible]									
22	.09	.16	.06	.07	.06	.04		4.09	.34									
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	2.37	.52	2.06	.93	2.50	1.24		34.[illegible]	2.[illegible]	Total of Daily Averages / Total of Daily Totals								

Recording gages

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by W.S.
Checked by W.T.W.
Computed by W.S.
Checked by W.T.W.
Final check by W.T.W.

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1
MONTH OF July and August 19 39
6 stations - West Tarkio Creek Watershed
July, 1939
SHEET 25 OF 40 SHEETS

STATION / DATE	NO. 29 7a.m.	NO. 29 7p.m.	NO.	NO. 48 7a.m.	NO. 48 7p.m.	NO.	NO. 49 7a.m.	NO. 49 7p.m.	NO.	NO. 50 7a.m.	NO. 50 7p.m.	NO.	NO. 51 7a.m.	NO. 51 7p.m.	NO.	NO. 52 7a.m.	NO. 52 7p.m.	NO.
1	.27	.03		.25			.30			.38						.04		
2							1.10											
3																		
4	.92			1.30						1.34			.95			.87		
5	.22			.22						.27			2.23			.92		
6																		
7		.04												.01				
8																		
9																		
10																		
11																		
12																		
13																		
14													.05			.07		
15																		
16							.46											
17	.50			.43						.39			.43			.31		
18																		
19																		
20	.51			.29			.47			.43			.02			.13		
21																		
22																		
23																		
24																		
25	1.28			1.20			1.27			1.30			.89			1.18		
26																		
27																		
28	.68			.53			.70			.72			.92			.35		
29																		
30																		
31																		
TOTAL	4.68	.07		4.33			4.40			4.72			5.49	.01		3.92		

Recording gages

August, 1939

STATION / DATE	NO. 29 7a.m.	NO. 29 7p.m.	NO.	NO. 48 7a.m.	NO. 48 7p.m.	NO.	NO. 49 7a.m.	NO. 49 7p.m.	NO.	NO. 50 7a.m.	NO. 50 7p.m.	NO.	NO. 51 7a.m.	NO. 51 7p.m.	NO.	NO. 52 7a.m.	NO. 52 7p.m.	NO.
1		.08			.01			.12			.11			.18		.13		
2																		
3																		
4																		
5																		
6	.03									.07			.03			.14		
7		.46			.43			.37			.41			.43			.07	
8	.69			.14	.41		.53			.66			.40			.61		
9																		
10		.04						.01			.01			1.78			.08	
11																		
12	.07				.03		.08			.10			.03			.05		
13																		
14																		
15																		
16										.11			.01	.05		.04		
17																		
18																		
19													.09			.09		
20										.1								
21																		
22	.36	.11		.29	.10		.42			.57			.39	.08		.48	.61	
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	1.33	.69		1.07	.72		1.39	.54		1.54	.45		1.29	2.52		1.54	1.24	

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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Computed by W.S.
Checked by W.T.W
Final check by W.T.W.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1

9 stations, located in the proximity of Tarkio River and West Tarkio Creek Watershed

SHEET 26 OF 40 SHEETS

MONTH OF July & August 1939

July, 1939

STATION / DATE	NO. 11 Near Westobor, Missouri 7a.m.	NO. 11 7p.m.	NO. 12 Missouri 7a.m.	NO. 12 7p.m.	NO. 15 Tarkio, 7a.m.	NO. 15 7p.m.	NO. 17 No. 7a.m.	NO. 17 7p.m.	NO. 18 Shenandoah, 7a.m.	NO. 18 7p.m.	NO. 19 Red Oak, Ia. 7a.m.	NO. 19 7p.m.	NO. 28 Clarinda, Ia. 7a.m.	NO. 28 7p.m.	NO. 53 Elliott, Ia. 7a.m.	NO. 53 7p.m.	NO. 54 Braddyville, Ia. 7a.m.	NO. 54 7p.m.
1	.21		.34				.59		.45	.41			.47					
2																		
3			.04															
4	.82		.06		.54		.40		1.43		.37		1.47					
5	.08				.05		.03		.09		1.84		.65					
6															Record		Record	
7															started		started	
8																		
9															July 14		July 9	
10																		
11																		
12																		
13																		
14											.19							
15																		
16																		
17	.34		.22						.38		.65		.45		.49	.07	.16	
18															.05			
19																		
20									.04		.12		.04		.05		.23	
21																		
22																		
23																		
24																		
25	.95		.65		.23		.35		1.10		.99		.85		1.92		.76	
26																		
27																		
28	.64				.14		.12		.02		.35		.05		.52		.40	
29																		
30																		
31																		
TOTAL	3.04		1.31		1.61		1.49		4.33	.08	4.49		3.40		3.35	.07	1.62	

August, 1939

STATION / DATE	NO. 11 Near Westboro, Missouri 7a.m.	NO. 11 7p.m.	NO. 12 7a.m.	NO. 12 7p.m.	NO. 15 Tarkio, 7a.m.	NO. 15 7p.m.	NO. 17 No. 7a.m.	NO. 17 7p.m.	NO. 18 Shenandoah, 7a.m.	NO. 18 7p.m.	NO. 19 Red Oak, Ia. 7a.m.	NO. 19 7p.m.	NO. 28 Clarinda, Ia. 7a.m.	NO. 28 7p.m.	NO. 53 Elliott, Ia. 7a.m.	NO. 53 7p.m.	NO. 54 Braddyville, Ia. 7a.m.	NO. 54 7p.m.
1		.03		.03						.06		.13		.11		.06		
2															.04			
3																		
4																		
5																		
6	.06		.04						.04		.05		.21		.12		.15	
7		.53		.04		.02		1.35		.37		.77		.10		.29		.46
8	2.23		1.90	.02	2.63		1.42		.89		.12		1.08		.46			
9																	.26	
10		.04								.03		.09				1.81		.15
11					.18								.19					
12	.22		.12				.12		.13		.04		.32		.07		.18	
13																		
14																		.04
15		.03		.07	.04											.01	.02	
16			.05				.22		.27		.05				.50	.75		
17																		
18																		
19											.06				.37			
20			.02	.04			.09			.03	.45		.03		.11			
21																		
22	*.25	.04	.07	.10		.12		.06	*.17	.05	.19	.06	.13	.22	.29	.06		.32
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	2.81	.67	2.20	1.10	2.65	1.04	1.85	1.41	1.30	.44	1.54	1.95	1.72	.73	1.76	3.18	1.21	.97

*Gage read at 1:00 P.M.

*Gage read at 7:45 A.M.

Form SCL-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by W.S.
Checked by W.T.W.
Computed by W.T.W.
Checked by W.T.W.
Final check by W.T.W.

RECORD OF DAILY PRECIPITATION

NAME: West Tarkio Cr. Demonstration Project — LOCATION: Shenandoah, Iowa

PROJECT NO. Ia-1 — 23 stations - Tarkio River Watershed — SHEET 27 OF 40 SHEETS

MONTH OF September & October 19 39 — September, 1939

DATE	NO. 33 7a.m.	NO. 33 7p.m.	NO. 34 7a.m.	NO. 34 7p.m.	NO. 1 7a.m.	NO. 1 7p.m.	NO. 25 7a.m.	NO. 25 7p.m.	NO. 35 7a.m.	NO. 35 7p.m.	NO. 36 7a.m.	NO. 36 7p.m.	NO. 26 7a.m.	NO. 26 7p.m.	NO. 37 7a.m.	NO. 37 7p.m.	NO. 38 7a.m.	NO. 38 7p.m.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11		.04	.09															
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23										.02								
24																		
25																		
26			.05										.01					
27																		
28		.02				.03												
29	.26		.38		.09		.45		.14		.40		.13		.48		.36	
30																		
31																		
TOTAL	.26	.06	.52		.32	.03	.45		.14	.02	.40		.19		.48		.36	

NOTE: Stations listed in each Watershed by location North to South

* Recording gages

October, 1939

DATE	NO. 33 7a.m.	NO. 33 7p.m.	NO. 34 7a.m.	NO. 34 7p.m.	NO. 1 7a.m.	NO. 1 7p.m.	NO. 25 7a.m.	NO. 25 7p.m.	NO. 35 7a.m.	NO. 35 7p.m.	NO. 36 7a.m.	NO. 36 7p.m.	NO. 26 7a.m.	NO. 26 7p.m.	NO. 37 7a.m.	NO. 37 7p.m.	NO. 38 7a.m.	NO. 38 7p.m.
1																		
2																		
3																		
4																		
5	.25		.32		.13		.06		.13		.04						.08	
6																		
7																		
8		.07		.22		.06		.06		.14		.20		.22		1.30		.18
9	1.44		1.35		1.25	.04	1.20		1.32		1.24		1.30				1.23	
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20		.04		.07		.02				.05		.03			.03			.02
21																		
22																		
23																		
24																		
25																		
26		.02		.13		.04		.30		.18		.11		.10				
27																		
28																		
29																		
30																		
31																		
TOTAL	1.69	.13	1.57	.32	1.38	.16	1.26	.56	1.45	.37	1.28	.34	1.30	.32	.03	1.30	1.30	.20

* Recording gages

Read at 6: P.M.

Form SCS-241 Page 2

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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Checked by W.T.W.
Final check by W.T.W.

RECORD OF DAILY PRECIPITATION

NAME East Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Iowa

23 stations - Tarkio River Watershed

MONTH OF September & October 19 39 September, 1939

SHEET 28 OF 40 SHEETS

STATION / DATE	NO. 40 Tarkio	NO. 40 Tarkio	NO. 39 Tarkio	NO. 39 Tarkio	NO. 3 Tarkio	NO. 3 Tarkio	NO. 41 Tarkio	NO. 41 Tarkio	NO. 42 Tarkio	NO. 42 Tarkio	NO. 27 Tarkio	NO. 27 Tarkio	NO. 4 Tarkio	NO. 4 Tarkio	NO. 24 Tarkio	NO. 24 Tarkio	NO. 43 Tarkio	NO. 43 Tarkio
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29	.37		.45		.46		.36		.48		.40		.39		.43		.39	
30																		
31																		
TOTAL	.37		.45		.46		.36		.48		.40		.39		.43		.39	

Recording gages

October, 1939

STATION / DATE	NO. 40 Tarkio	NO. 40 Tarkio	NO. 39 Tarkio	NO. 39 Tarkio	NO. 3 Tarkio	NO. 3 Tarkio	NO. 41 Tarkio	NO. 41 Tarkio	NO. 42 Tarkio	NO. 42 Tarkio	NO. 27 Tarkio	NO. 27 Tarkio	NO. 4 Tarkio	NO. 4 Tarkio	NO. 24 Tarkio	NO. 24 Tarkio	NO. 43 Tarkio	NO. 43 Tarkio
1																		
2																		
3																		
4																		
5	.03				.03		.02				.02		.02		.05		.03	
6																		
7																		
8		.12		.20		.02		.15		.23		.27		.23		.12		.23
9	1.16		1.22		1.26		.84	.02	1.10		1.05		1.10		1.26		1.05	
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	1.27	.12	1.22	.20	1.28	.02	.95	.17	1.10	.23	1.07	.27	1.32	.20	1.29	.12	1.08	.23

Recording gages

Form SCS-361

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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Computed by W.T.W.
Checked by W.T.W.
Final check by W.T.W.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project — LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 — 23 stations - Tarkio River Watershed — SHEET 29 OF 40 SHEETS

MONTH OF September & October, 39 — September, 1939

DATE	NO. 45 7a.m.	NO. 45 7p.m.	NO. 44 7a.m.	NO. 44 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO. 46 7a.m.	NO. 46 7p.m.	NO. 47 7a.m.	NO. 47 7p.m.	NO.	NO. Daily Totals	NO. Daily Average	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11												.13	.01					
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23												.02						
24																		
25																		
26												.06						
27																		
28												.05						
29	.53		.47	.02	.43		.49		.57			9.93	.43					
30																		
31																		
TOTAL	.53		.47	.02	.43		.49		.57			10.19	.44	Total of Daily Averages				
	Recording gages												.44	Average of Daily Totals				

October, 1939

DATE	NO. 45 7a.m.	NO. 45 7p.m.	NO. 44 7a.m.	NO. 44 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO. 46 7a.m.	NO. 46 7p.m.	NO. 47 7a.m.	NO. 47 7p.m.	NO.	NO. Daily Totals	NO. Daily Average	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5	.02		.10		.02		.05		.12			1.52	.07					
6																		
7																		
8	.35		.03	.19		.15		.02	.02	.21		5.21	.23					
9	1.02		1.04	.02		1.09	1.15		.74	.01		25.65	1.12					
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20												.26	.01					
21																		
22																		
23																		
24																		
25																		
26												.88	.04					
27																		
28																		
29																		
30																		
31																		
TOTAL	1.41		1.17	.21	.02	1.24	1.20	.22	.84	.22		33.52	1.47	Total of Daily Averages				
	Recording gages												1.46	Average of Daily Totals				

Form SCS-361

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by W.S.
Checked by W.T.W.
Computed by W.T.W.
Checked by W.T.W.
Final check by W.T.W.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 — 12 stations - West Tarkio Creek Watershed — SHEET 30

MONTH OF September & October, 1939 — September, 1939 — OF 40 SHEETS

STATION / DATE	NO. 22 7a.m.	NO. 22 7p.m.	NO. 6 7a.m.	NO. 6 7p.m.	NO. 20 7a.m.	NO. 20 7p.m.	NO. 30 7a.m.	NO. 30 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 31 7a.m.	NO. 31 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23		.03																
24																		
25																		
26																		
27																		
28		.01				.01						.02				.01		
29	.41	.02	.43		.44		.38		.42		.41		.40		.34		.43	
30																		
31																		
TOTAL	.41	.06	.43		.44	.01	.38		.42		.41	.02	.40		.34	.01	.43	

NOTE: Stations listed in each Watershed by location North to South

*Recording gages

October, 1939

STATION / DATE	NO. 22 7a.m.	NO. 22 7p.m.	NO. 6 7a.m.	NO. 6 7p.m.	NO. 20 7a.m.	NO. 20 7p.m.	NO. 30 7a.m.	NO. 30 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 31 7a.m.	NO. 31 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.
1																		
2																		
3																		
4																		
5	.18		.15		.06		.03		.04		.02		.03		.04		.03	
6																		
7																		
8		.12		.20		.23		.30		.24		.23		.21		.25		.28
9	1.13	.02	1.25		1.25	.05	1.33		1.42		1.32	.01	1.20		1.31		1.07	.06
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20		.02		.04		.01		.03	.01									
21																		
22																		
23																		
24																		
25																		
26		.02		#.03														
27																		
28																		
29																		
30																		
31																		
TOTAL	1.31	.18	1.40	.27	1.31	.29	1.36	.33	1.47	.24	1.34	.24	1.23	.21	1.35	.25	1.10	.34

*Recording gages

#Read 8 A.M. of 27th

Form SCS-251 Page 2

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by W.S.
Checked by W.T.W.
Computed by W.T.W.
Checked by W.T.W.
Final check by W.T.W.

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. 1-1 — 12 stations - West Tarkio Creek Watershed — SHEET 31 OF 40 SHEETS

MONTH OF September & October 1939

September, 1939

DATE \ STATION	NO. 32 7a.m.	NO. 32 7p.m.	NO. 21 7a.m.	NO. 21 7p.m.	NO. 23 7a.m.	NO. 23 7p.m.	NO.	NO. Daily Totals	NO. Daily Averages	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28						.02		.07	.01									
29	.51		.50		.70			5.39	.45									
30																		
31																		
TOTAL	.51		.50		.70	.02		5.49	.46	Total of Daily Averages								
									.40	~~Average of Daily Totals~~								

*Recording gages

October, 1939

DATE \ STATION	NO. 32 7a.m.	NO. 32 7p.m.	NO. 21 7a.m.	NO. 21 7p.m.	NO. 23 7a.m.	NO. 23 7p.m.	NO.	NO. Daily Totals	NO. Daily Averages	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5	.05		.05		.07			.25	.05									
6																		
7																		
8		.22		.31		.35		2.34	.24									
9	1.09		.97	.04	1.12			14.64	1.22									
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20								.11	.01									
21																		
22																		
23																		
24																		
25																		
26								.05										
27																		
28																		
29																		
30																		
31																		
TOTAL	1.14	.22	1.03	.35	1.19	.35		18.52	1.53	Total of Daily Averages								
									1.54	~~Average of Daily Totals~~								

*Recording gages

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by W.S.
Checked by W.T.W.
Computed by W.T.W.
Checked by W.T.W.
Final check by W.T.W.

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1

6 stations -- West Tarkio Creek Watershed
September, 1939

MONTH OF September & October 1939

SHEET 32 OF 40 SHEETS

DATE \ STATION	NO. 29 7a.m.	NO. 29 7p.m.*	NO.	NO. 48 7a.m.	NO. 48 7p.m.*	NO.	NO. 49 7a.m.	NO. 49 7p.m.	NO.	NO. 50 7a.m.	NO. 50 7p.m.	NO.	NO. 51 7a.m.	NO. 51 7p.m.	NO.	NO. 52 7a.m.	NO. 52 7p.m.	NO.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																.02		
27																		
28																		
29	.35			.31			.43			.38			.45			.49		
30																		
31																		
TOTAL	.35			.31			.43			.38			.45			.51		

*Recording gage

October, 1939

DATE \ STATION	NO. 29 7a.m.	NO. 29 7p.m.*	NO.	NO. 48 7a.m.	NO. 48 7p.m.*	NO.	NO. 49 7a.m.	NO. 49 7p.m.	NO.	NO. 50 7a.m.	NO. 50 7p.m.	NO.	NO. 51 7a.m.	NO. 51 7p.m.	NO.	NO. 52 7a.m.	NO. 52 7p.m.	NO.
1																		
2																		
3																		
4																		
5	.02			.05						.06			.13			.06		
6																		
7																		
8		.27			.21			.30						.16			.28	
9	1.35			1.28			1.28			1.51			1.22			1.27		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20														.03			.02	
21																		
22																		
23																		
24																		
25																		
26														.05				
27																		
28																		
29																		
30																		
31																		
TOTAL	1.37	.27		1.33	.21		1.28	.30		1.57			1.35	.29		1.31	.30	

*Recording gages

Form SCS-361

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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Checked by W.T.W.
Final check by W.T.W.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1

9 stations located in the proximity of Tarkio River and West Tarkio Creek Watersheds

MONTH OF September & October, 19 39

SHEET 33 OF 40 SHEETS

September, 1939

DATE	NO. 11 Near Westboro, Mo. 7a.m.	NO. 11 7p.m.	NO. 12 7a.m.	NO. 12 7p.m.	NO. 15 Tarkio, Mo. 7a.m.	NO. 15 7p.m.	NO. 17 7a.m.	NO. 17 7p.m.	NO. 18 Shenandoah, Ia. 7a.m.	NO. 18 7p.m.	NO. 19 Red Oak, Ia. 7a.m.	NO. 19 7p.m.	NO. 28 Clarinda, Ia. 7a.m.	NO. 28 7p.m.	NO. 53 Elliott, Ia. 7a.m.	NO. 53 7p.m.	NO. 54 Braddyville, Ia. 7a.m.	NO. 54 7p.m.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																.11		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28										.07								
29	.55		.77		.76		.65		.37		.43		.52		.32		.84	
30																		
31																		
TOTAL	.55		.77		.76		.65		.37	.07	.43		.52		.32	.11	.84	

October, 1939

DATE	NO. 11 Near Westboro, Mo. 7a.m.	NO. 11 7p.m.	NO. 12 7a.m.	NO. 12 7p.m.	NO. 15 Tarkio, Mo. 7a.m.	NO. 15 7p.m.	NO. 17 7a.m.	NO. 17 7p.m.	NO. 18 Shenandoah, Ia. 7a.m.	NO. 18 7p.m.	NO. 19 Red Oak, Ia. 7a.m.	NO. 19 7p.m.	NO. 28 Clarinda, Ia. 7a.m.	NO. 28 7p.m.	NO. 53 Elliott, Ia. 7a.m.	NO. 53 7p.m.	NO. 54 Braddyville, Ia. 7a.m.	NO. 54 7p.m.
1																		
2																		
3																		
4						.04				.05								
5	.16		.21					.20			.34		.20		.34		.32	
6																		
7																		
8		.20	.11	.22				.19				.32		.24		.04		.27
9	1.01		.52		1.47			.51	1.80		1.20		.72		1.53		.51	
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20								.03								.02		
21																		
22																		
23																		
24																		
25																		
26			.02															
27																		
28																		
29																		
30			.03															
31																		
TOTAL	1.17	.20	1.19	.22	1.47	.04		1.32	1.80	.05	1.54	.32	.92	.24	1.87	.12	.89	.27

Form SCS-381

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by W.S.
Checked by W.S.
Computed by W.S.
Checked by E.S.
Final check by E.S.

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 SHEET 34

MONTH OF November & December 1939 23 stations - Tarkio River Watershed November, 1939 OF 40 SHEETS

STATION / DATE	NO. 33* 7a.m.	NO. 33* 7p.m.	NO. 34 7a.m.	NO. 34 7p.m.	NO. 1* 7a.m.	NO. 1* 7p.m.	NO. 25 7a.m.	NO. 25 7p.m.	NO. 35 7a.m.	NO. 35 7p.m.	NO. 36* 7a.m.	NO. 36* 7p.m.	NO. 26 7a.m.	NO. 26 7p.m.	NO. 37 7a.m.	NO. 37 7p.m.	NO. 38* 7a.m.	NO. 38* 7p.m.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9		.04		.07		.04		.25		.22		.03		.05		.04		.07
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24									.03									
25																		
26																		
27																		
28																		
29																		
30		.06		#.07		.33		.24		.11		.15		.15				.19
31																		
TOTAL		.10		.14		.37		.49	.03	.33		.18		.20		.04		.26

*Recording gages #Reading taken at 6: P.M. December, 1939

STATION / DATE	NO. 33* 7a.m.	NO. 33* 7p.m.	NO. 34 7a.m.	NO. 34 7p.m.	NO. 1* 7a.m.	NO. 1* 7p.m.	NO. 25 7a.m.	NO. 25 7p.m.	NO. 35 7a.m.	NO. 35 7p.m.	NO. 36* 7a.m.	NO. 36* 7p.m.	NO. 26 7a.m.	NO. 26 7p.m.	NO. 37 7a.m.	NO. 37 7p.m.	NO. 38* 7a.m.	NO. 38* 7p.m.
1	.22	.02	.24	.09	.24	.01	.14	.06	.28		.27	.02	.30	.01	.22		.23	.02
2	.02		.03								.01						.01	
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		.31
23		.10		#.10		.16		.11		.14		.13		.23		.10	.03	
24					.02				.22				.11					
25																		
26	.01	.16	**.12	%.12		.29	.04	.16	.06	.20		.11		.25		.10		.23
27	.06	.01	**.07		.07	.03	.06	.02	.08	.03	.05	.02					.07	
28							Data by Interpolation		6" old snow									
29																		
30																		
31		.02				.04		.02		.03		.02	8" old snow .08					.03
TOTAL	.31	.31	.46	.31	.33	.53	.24	.37	.44	.40	.33	.30	.50	.55	.22	.20	.34	.59

*Recording gages **Reading taken at 9 A.M. %Reading at 6 P.M. Reading taken at 8 P.M.

Form SCS-[illegible] Page 2

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by W.S.
Checked by W.S.
Computed by W.S.
Checked by E.S.
Final check by E.S.

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 23 stations - Tarkio River Watershed SHEET 35 OF 40 SHEETS

MONTH OF November & December, 39

DATE \ STATION	NO. 40 7a.m.	NO. 40 7p.m.	NO. 39 7a.m.	NO. 39 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 41* 7a.m.	NO. 41* 7p.m.	NO. 42 7a.m.	NO. 42 7p.m.	NO. 27 7a.m.	NO. 27* 7p.m.	NO. 4 7a.m.	NO. 4* 7p.m.	NO. 24 7a.m.	NO. 24 7p.m.	NO. 43 7a.m.	NO. 43 7p.m.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9				.05				.02						.02	.08			.07
10											.07							
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30		.25		.32		.15		.20		.21		.31		.03		.38		.40
31																		
TOTAL		.25		.37		.15		.22		.21	.07	.31		.05	.08	.30		.40

*Recording gages

November, 1939

DATE \ STATION	NO. 40 7a.m.	NO. 40 7p.m.	NO. 39 7a.m.	NO. 39 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 41* 7a.m.	NO. 41* 7p.m.	NO. 42 7a.m.	NO. 42 7p.m.	NO. 27 7a.m.	NO. 27* 7p.m.	NO. 4 7a.m.	NO. 4* 7p.m.	NO. 24 7a.m.	NO. 24 7p.m.	NO. 43 7a.m.	NO. 43 7p.m.
1	.21	.01	.24		.23		.13		.19		.13	.05	.15	.01	.13		.13	
2															.02			
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23		.11		.20		.33		.05				.12		.08		.31		.08
24	.01								.16				.05				.07	
25																		
26		.14		.22		.24		.08				.14		.19		.26	.02	.09
27	.10		.07				.05			.34	8" old snow			.08	.08	.03	.05	
28															.02		.02	
29																		
30																		
31			.03			.05		.03						.03		.03		.04
TOTAL	.32	.26	.34	.42	.23	.62	.18	.16	.35	.34	.13	.31	.20	.39	.24	.68	.29	.21

*Recording gages

Form SCS-361 Page 3

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by W.S.
Checked by W.S.
Computed by W.S.
Checked by E.S.
Final check by E.S.

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 — 23 stations - Tarkio River Watershed — SHEET 36 OF 40 SHEETS

MONTH OF November & December 19 39 — November, 1939

DATE \ STATION	NO. 45 7a.m.	NO. 45 7p.m.	NO. 44 7a.m.	NO. 44 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO. 46 7a.m.	NO. 46 7p.m.	NO. 47 7a.m.	NO. 47 7p.m.	NO.	NO. Daily Totals	NO. Daily Averages	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9	.45			.12	.15					.3		1.01	.07					
10			.06				.15		.06			.27	.02					
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24												.03						
25																		
26																		
27																		
28																		
29																		
30		.14		.21				.27		.22		4.56	.20					
31																		
TOTAL	.06	.14	.06	.40	.15		.15	.27	.06	.55		6.50	.21	Total of Daily Averages				
														Average of Daily Totals				

*Recording gages

December, 1939

DATE \ STATION	NO. 45 7a.m.	NO. 45 7p.m.	NO. 44 7a.m.	NO. 44 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO. 46 7a.m.	NO. 46 7p.m.	NO. 47 7a.m.	NO. 47 7p.m.	NO.	NO. Daily Totals	NO. Daily Averages	NO.	NO.	NO.	NO.	NO.
1	.31	.03	.12	[illegible]	.07		[illegible]		[illegible]	[illegible]		[illegible]	[illegible]					
2			.03	[illegible]			.2		.03			.17	.01					
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22												.31	.01					
23				.15						.11		2.64	.11					
24	.07		.07	.02	.10				.05			.75	.03					
25																		
26		.08		.08			.10	.15		.08		3.72	.16					
27			.06	.03	.15		.06		.05	.02		1.74	.08					
28	.04				.03							.11						
29																		
30						.02						.02						
31	.05			.03						.03		.62	.03					
TOTAL	.46	.11	.28	.33	.75	.02	.39	.15	.20	.25		15.34	.66	Total of Daily Averages				
													.57	Average of Daily Totals				

*Recording gages

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by W.S.
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Computed by W.S.
Checked by E.S.
Final check by E.S.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Iaml — 12 stations - West Tarkio Creek Watershed — SHEET 37 OF 40 SHEETS

MONTH OF November & December 19 39 — November, 1939

STATION / DATE	NO. 22 7a.m.	NO. 22 7p.m.	NO. 6 7a.m.	NO. 6 7p.m.	NO. 20 7a.m.	NO. 20 7p.m.	NO. 30 7a.m.	NO. 30 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 31 7a.m.	NO. 31 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9		.12				.02				.07						.02		.01
10			.08				.06										.01	
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30		.16				.22		.17		.29		.24		.28		.30		.29
31																		
TOTAL		.28	.08			.24	.06	.17		.36		.24		.28		.32	.01	.30

NOTE: Stations listed in each Watershed by location North to South.

*Recording gages

December, 1939

STATION / DATE	NO. 22 7a.m.	NO. 22 7p.m.	NO. 6 7a.m.	NO. 6 7p.m.	NO. 20 7a.m.	NO. 20 7p.m.	NO. 30 7a.m.	NO. 30 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 31 7a.m.	NO. 31 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.
1	.24	.06	.62		.33	.02	.38		.23		.16	.01	.23		.12		.08	
2			.10				.05		.24								.03	
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23		.24				.06				.12		.06		.05		.15	.04	
24	.03		.20				.03		.03						.04		.03	.03
25																		
26	.06	.28		.19		.13		.14	.03	.20		.13		.15		.14		.06
27	.11	.01	.10	(Dist.	.05			.03	.04	.01	.07	.02	.05		.07		.03	.02
28			by interpolation)						.01	.02				.05				
29			.10						7" old snow									
30									on the 28th									
31		.04				.03				.04		.02		.03	4" old snow			.02
TOTAL	.44	.63	1.12	.19	.38	.24	.46	.17	.38	.38	.23	.24	.28	.28	.23	.29	.22	.13

*Recording gages

Form SCS-361 Page 2

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by W.S.
Checked by W.S.
Computed by W.S.
Checked by E.S.
Final check by E.S.

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 12 stations - West Tarkio Creek Watershed SHEET 38 OF 40 SHEETS

MONTH OF November & December 19 39 November, 1939

STATION / DATE	NO. 32 7a.m.	NO. 32 7p.m.	NO. 21 7a.m.	NO. 21 7p.m.	NO. 23 7a.m.	NO. 23 7p.m.	NO.	NO. Daily Totals	NO. Daily Average	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9		.04		.06		.16		.50	.04									
10			.01		.03			.19	.02									
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30		.35		.25		.24		2.79	.23									
31																		
TOTAL		.39	.01	.31	.03	.40		3.48	.29	Total of Daily Averages								

*Recording gauge

Average of Daily Totals

STATION / DATE	NO. 32 7a.m.	NO. 32 7p.m.	NO. 21 7a.m.	NO. 21 7p.m.	NO. 23 7a.m.	NO. 23 7p.m.	NO.	NO. Daily Totals	NO. Daily Average	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1			.03	.04	.07	.03		2.63	.22									
2			.04		.02			.04	.02									
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23		.09		.02		.08		.91	.08									
24			.03	.02	.03	.03		.50	.04									
25																		
26		.09		.06		.12		1.72	.16									
27	.04		.05	.02	.06	.02		.82	.07									
28								.07	.01									
29								.10	.01									
30	4" old snow																	
31				.02		.05		.24	.02									
TOTAL	.04	.18	.17	.16	.17	.31		7.32	.63	Total of Daily Averages								

Average of Daily Totals

*Recording gages

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

RECORD OF DAILY PRECIPITATION

Copied by W.S.
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Computed by W.S.
Checked by E.S.
Final check by E.S.

NAME: West Tarkio Cr. Demonstration Project — LOCATION: Shenandoah, Iowa

PROJECT NO. Ia-1 — 7 stations - West Tarkio Creek Watershed — SHEET 39 OF 40 SHEETS

MONTH OF November & December 19 39 — November, 1939

STATION	NO. 29*	NO. 29*	NO.	NO. 48*	NO. 48*	NO.	NO. 49	NO. 49	NO.	NO. 50	NO. 50	NO. 51	NO. 51	NO. 52	NO. 52	NO.	NO. 55	NO. 55
DATE	7a.m.	7p.m.		7a.m.	7p.m.		7a.m.	7p.m.		7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.		7a.m.	7p.m.
1																		
2																		
3																		
4	Float type																	
5	gage																	
6	abandoned																	
7	on Nov. 7																	
8	for winter																	
9					.02						.03		.22					
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30					.08			.24			.14		.17		.21			
31																		
TOTAL					.30			.24			.17		.39		.21			

*Recording gages

December, 1939

STATION	NO. 29*	NO. 29*	NO.	NO. 48*	NO. 48*	NO.	NO. 49	NO. 49	NO.	NO. 50	NO. 50	NO. 51	NO. 51	NO. 52	NO. 52	NO.	NO. 55	NO. 55
DATE	7a.m.	7p.m.		7a.m.	7p.m.		7a.m.	7p.m.		7a.m.	7p.m.	7a.m.	7p.m.	7a.m.	7p.m.		7a.m.	7p.m.
1				.09			.26			.38	.02	.27		.35	.03			
2	Gage			.02			.02					.04						
3	abandoned																	
4	for the																	
5	winter months																	
6																		
7																		
8																		
9																	Gage established	
10																	on the 10th	
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23					.06			.23			.07		.20					.05
24				.04						.02				.17				
25																		
26				.01	.06			.30			.09		.45		.20			.02
27				.02				.12		.01		.08			.10		4" old snow	
28										.02		.03		7" old snow				
29																		
30																		
31					.03													
TOTAL				.18	.15		.28	.65		.43	.18	.42	.65	.52	.33			.07

*Recording gage

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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Computed by W.S.
Checked by E.S.
Final check by E.S.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Ia.

PROJECT NO. Ia-1 — 9 stations, located in the proximity of Tarkio River and West Tarkio Creek Watershed — SHEET 40 OF 40 SHEETS

MONTH OF November & December 19 39

November, 1939

STATION / DATE	NO. 11 Near Westboro, Mo. 7a.m.	NO. 11 7p.m.	NO. 12 Mo. 7a.m.	NO. 12 7p.m.	NO. 15 7a.m.	NO. 15 Tarkio, 7p.m.	NO.	NO. 17 Mo. 7p.m.	NO. 18 Shenandoah, 7a.m.	NO. 18 7p.m.	NO. 19 Red Oak, Ia. 7a.m.	NO. 19 7p.m.	NO. 28 Clarinda, Ia. 8a.m.	NO. 28 5p.m.	NO. 53 Stennett, Ia. 7a.m.	NO. 53 7p.m.	NO. 54 Braddyville, Ia. 7a.m.	NO. 54 7p.m.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9		.20		.28				.26				.09		.12		.01		.58
10	.04		.06		.18			.23					.04					
11																		
12																		
13																		
14																		
15																		
16				.02														
17																		
18																		
19																		
20																		
21																		
22			.02															
23																		
24			.02					.03										
25																		
26																		
27																		
28																		
29																		
30		.25		.25				.33						.09		.07		.33
31																		
TOTAL	.04	.45	.10	.55	.18			.85				.09	.04	.21		.08		.91

December, 1939

STATION / DATE	NO. 11 Near Westboro, Mo. 7a.m.	NO. 11 7p.m.	NO. 12 Mo. 7a.m.	NO. 12 7p.m.	NO. 15 7a.m.	NO. 15 Tarkio, 7p.m.	NO.	NO. 17 Mo. 7p.m.	NO. 18 Shenandoah, 7a.m.	NO. 18 7p.m.	NO. 19 Red Oak, Ia. 7a.m.	NO. 19 7p.m.	NO. 28 Clarinda, Ia. 8a.m.	NO. 28 5p.m.	NO. 53 Elliott, Ia. 7a.m.	NO. 53 7p.m.	NO. 54 Braddyville, Ia. 7a.m.	NO. 54 7p.m.
1	.19		.05	.03	.28				.49		.07		.24		.31		.07	
2			.02		.03				.01								.03	
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23		.10		.1		.20		.35		.23		.12		.06	No report			.20
24			.04					.03					.05		received			
25															since			
26		.10		.12				.05			.12	.10	.03	.14	Dec. 2, 1939			
27	.05		.08		.25			.01	.29			.08	.06	.01				
28			.02								6.5" old snow		5-1/2" old					.24
29									.07				snow on 26th			6" old snow		
30			5-1/4" old snow					.04										
31				.05			6-1/2" old snow							.04				
TOTAL	.24	.20	.21	.34	.56	.20		.48	.86	.23	.19	.30	.38	.25	.31		.10	.44

Form SCS-361

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by: W.S.
Checked by: W.S.
Computed by: W.S.
Checked by: W.S.
Final check by: W.S.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration ~~Project~~ LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 — 23 stations- Tarkio River Watershed — SHEET 1 OF 23 SHEETS

MONTH OF January & Feb. 1940 — January, 1940

DATE	NO. 33* 7a.m.	NO. 33 7p.m.	NO. 34 7a.m.	NO. 34 7p.m.	NO. 1* 7a.m.	NO. 1 7p.m.	NO. 25 7a.m.	NO. 25 7p.m.	NO. 35 7a.m.	NO. 35 7p.m.	NO. 36* 7a.m.	NO. 36 7p.m.	NO. 26 7a.m.	NO. 26 7p.m.	NO. 37 7a.m.	NO. 37 7p.m.	NO. 38* 7a.m.	NO. 38 7p.m.
1	.03		.07		.05				.06		.05						.01	
2																		
3																		
4			NOTE: Stations listed in each Watershed by location North to South															
5															7" old snow			
6				.16														
7	.12				.28	.03	.20	.04	.25	.04	.18	.01	.39	Snow reported			.29	.03
8													11" old snow out					
9													none on the 7th.	Precipitation				
10														reported.				
11																		
12																		
13		.26				.10		.20		.27	.02	.10		.38				.37
14	.05		.21		.02				.06		.04		.20				.11	
15																		
16																		
17		.03				.02				.04		.01		.15				.06
18					.04						.03						.03	
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	.20	.29	.28	.16	.39	.15	.20	.24	.37	.35	.32	.12	.59	.53			.44	.36

*Recording gages

Feb. 1940

DATE	NO. 33* 7a.m.	NO. 33 7p.m.	NO. 34 7a.m.	NO. 34 7p.m.	NO. 1* 7a.m.	NO. 1 7p.m.	NO. 25 7a.m.	NO. 25 7p.m.	NO. 35 7a.m.	NO. 35 7p.m.	NO. 36* 7a.m.	NO. 36 7p.m.	NO. 26 7a.m.	NO. 26 7p.m.	NO. 37 7a.m.	NO. 37 7p.m.	NO. 38* 7a.m.	NO. 38 7p.m.
1																		
2																		
3		.06				.08		.03		.16		.13		.03				.14
4	.05		.18		.07				.03		.04		.04				.03	
5																		
6																		
7																		
8		.11				.21				.20		.07		.35				.22
9	.02		.16		.04				.03		.02						.06	
10																		
11																		
12																		
13																		
14																		
15																		
16								.09										
17	.16	.03	.16		.15	.04	.02		.21		.16	.04	.14			.20	.20	.02
18																		
19		.07				.15				.11		.06		.12				.11
20	.06	.01	.09		.06	.01		.09	.05		.02	.01	.14				.08	.01
21	.06				.05	.01				.04	.03		.09			.15	.16	
22																		
23		.12				.12		.13		.15		.23		.08				.12
24	.03		.20		.03												.02	
25																		
26																		
27																		
28	.03																	
29																		
30																		
31																		
TOTAL	.41	.40	.79		.40	.62	.02	.34	.32	.66	.31	.54	.41	.63		.35	.45	.60

*Recording gages

Form SC3-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by: W. S.
Checked by: W. S.
Computed by: W. S.
Checked by: W. S.
Final check by: E. S.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration ~~Project~~ LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 — 23 stations - Tarkio River Watershed — SHEET 2 OF 23 SHEETS

MONTH OF January & February 1940 — January, 1940

DATE	NO. 40 7a.m.	NO. 40 7p.m.	NO. 39 7a.m.	NO. 39 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 41* 7a.m.	NO. 41 7p.m.	NO. 42 7a.m.	NO. 42 7p.m.	NO. 27 7a.m.	NO. 27 7p.m.	NO. 4* 7a.m.	NO. 4 7p.m.	NO. 24 7a.m.	NO. 24 7p.m.	NO. 43 7a.m.	NO. 43 7p.m.
1	.06						.01				.07							
2																		
3			.01		.06									.06		.10	.04	.04
4													.01					
5																		
6																		
7	.16		.23		.30		.10	.02		.38	.24		.20	.01	.41		.24	
8																		
9																		
10																		
11																		
12																		
13		.38		#.27		.40		.13				.39		.28		.50		.27
14	.07		.03				.07		.42		.12		.03	.04	.10		.02	
15																		
16																		
17		.04		.04		.08		.04				.07		.05		.09		
18							.02		.03									
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	.29	.42	.27	.31	.36	.48	.20	.19	.45	.38	.50	.46	.29	.44	.51	.69	.30	.23

*Recording gages. #Gage read at 5:00 P.M. Feb. 1940

DATE	NO. 40 7a.m.	NO. 40 7p.m.	NO. 39 7a.m.	NO. 39 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 41* 7a.m.	NO. 41 7p.m.	NO. 42 7a.m.	NO. 42 7p.m.	NO. 27 7a.m.	NO. 27 7p.m.	NO. 4* 7a.m.	NO. 4 7p.m.	NO. 24 7a.m.	NO. 24 7p.m.	NO. 43 7a.m.	NO. 43 7p.m.
1																		
2																		
3		.07		#.05		.13		.02				.23		.12		.11		.06
4			.04				.03		.09				.01		.04			
5																		
6																		
7																		
8		.14		#.17		.19		.07				.23		.15		.18		.06
9			.03				.03		.21		.06		.05		.20		.04	
10																		
11																		
12																		
13																		
14																		
15																		
16		.02																
17	.22		.21		.21		.19		[illegible]	.19	.24	[illegible]	.21	[illegible]	[illegible]	[illegible]	.17	
18																		
19		.14		.09		.10		.06			[illegible]	.07	[illegible]	.06	[illegible]	.04		[illegible]
20		.04	.04		.08		.05	.02		.12	.05		.03	.03	.06		.01	
21	.04		.02			.06	.08				.06		.01		.07		.03	
22																		
23		.17		℄ .14		.15		.20				.19		.21		.27		.27
24	.02		.02						.16				.01					
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	.28	.58	.36	.45	.29	.63	.38	.37	.46	.31	.41	.73	.32	.57	.59	.60	.25	.41

*Recording gages #Gage read at 5:00 P.M. ℄ Gage read at 5:00 P.M.

Form SCS-361

Copied by: W.S.
Checked by: W.S.
Computed by: W.S.
Checked by: W.S.
Final check by: E.S.

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

RECORD OF DAILY PRECIPITATION

NAME: West Tarkio Cr. Demonstration Project — LOCATION: Shenandoah, Iowa

23 stations - Tarkio River Watershed
January, 1940

PROJECT NO. Ia-1 — SHEET 3 OF 23 SHEETS
MONTH OF January & February 1940

DATE \ STATION	NO. 45 7a.m.	NO. 45 7p.m.	NO. 44* 7a.m.	NO. 44* 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO. 46 7a.m.	NO. 46 7p.m.	NO. 47* 7a.m.	NO. 47* 7p.m.	NO.	NO. Daily Totals	NO. Daily Averages	NO.	NO.	NO.	NO.	NO.
1			.03									.44	.02					
2																		
3	.02							.16				.49	.02					
4					.30							.31	.01					
5	.04											.04						
6										.03		.19	.01					
7		.11	.29	.01	.30				.31			5.17	.22					
8																		
9																		
10																		
11																		
12																		
13				.35		.21		.20		.28		5.16	.22					
14	.11		.07						.06			1.95	.08					
15																		
16																		
17				.05		.02		.38		.03		1.22	.05					
18	.02		.01						.02			.20	.01					
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	.19	.11	.40	.41	.60	.23		.74	.39	.34		35.17	.64	Total of Daily Averages				

*Recording gages

.66 Average of Daily Totals

Feb. 1940

DATE \ STATION	NO. 45 7a.m.	NO. 45 7p.m.	NO. 44* 7a.m.	NO. 44* 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO. 46 7a.m.	NO. 46 7p.m.	NO. 47 7a.m.	NO. 47 7p.m.	NO.	NO. Daily Totals	NO. Daily Averages	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3		.08		.04				.15		.10		1.84	.08					
4			.03				.05					.73	.03					
5																		
6																		
7																		
8	.14			.25				.35	.03	.23		3.33	.14					
9			.09		.23				.04			1.30	.06					
10																		
11																		
12																		
13																		
14																		
15																		
16												.35	.02					
17	.20		.21				.23		.20			3.93	.17					
18																		
19				.10						.04		1.36	.06					
20	.05						.12					1.33	.06					
21	.12		.04		.22				.06			1.35	.06					
22																		
23		.15		.19				.31		.16		3.36	.15					
24			.01		.20				.02			.72	.03					
25																		
26																		
27																		
28												.03						
29																		
30																		
31																		
TOTAL	.51	.23	.38	.58	.65		.40	.81	.35	.53		19.63	.86	Total of Daily Averages				
													.65	~~Average of Daily Totals~~				

*Recording gages

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by: W.S.
Checked by: W.S.
Computed by: W.S.
Checked by: W.S.
Final check by: E..S.

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-7
MONTH OF January 1, January 31, 1940

12 stations - West Tarkio Creek Watershed
January, 1940

SHEET 4 OF 23 SHEETS

STATION / DATE	NO. 22* 7a.m.	NO. 22* 7p.m.	NO. 6 7a.m.	NO. 6 7p.m.	NO. 20* 7a.m.	NO. 20* 7p.m.	NO. 30 7a.m.	NO. 30 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16* 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 31 7a.m.	NO. 31 7p.m.	NO. 9* 7a.m.	NO. 9 7p.m.
1	.05		.04 (dist.		.02						.01		.03					
2			by interpolation)															
3		.02								.06	.02	.01		.05	.04	.01		
4																		
5															6" old snow			
6																		.02
7	.32	.03	.20	.24	.12	.02	.12	.03	.20	.02	.19	.03	.30	.05	.14	.01	.16	
8																		
9															9" old snow			
10																		
11									.01									
12																		
13		.22	.05	.22		.10		.15		.14		.20				.12		.19
14	.07		.05		.04				.03		.03		.35				.04	
15															11" old snow			
16																		
17		.06				.02		.10		.02		.02		.20		.02		.04
18			.07		.02						.03				.16			
19																		
20																		
21															15" old snow			
22																		
23	NOTE: Stations listed in each watershed by location North to South																	
24																		
25																		
26																		
27															11" old snow			
28																		
29																		
30															9" old snow			
31																		
TOTAL	.44	.39	.41	.27	.20	.14	.12	.28	.24	.24	.28	.26	.68	.30	.34	.16	.20	.25

*Recording gages

Feb. 1940

STATION / DATE	NO. 22* 7a.m.	NO. 22* 7p.m.	NO. 6 7a.m.	NO. 6 7p.m.	NO. 20* 7a.m.	NO. 20* 7p.m.	NO. 30 7a.m.	NO. 30 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16* 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 31 7a.m.	NO. 31 7p.m.	NO. 9* 7a.m.	NO. 9 7p.m.
1																		
2																		
3		.11				.12				.07		.10		.18		.13		.19
4	.24		.12		.06												.01	
5																		
6																		
7																		
8		.22			.01	.06				.11		.11		.25		.05		.08
9	.01		.18		.01				.03		.06				.22		.02	
10															7" old snow			
11																		
12																		
13															5" old snow			
14																		
15																		
16																		
17	.22	.22	#.20		.12	.07	.23		.13		.19		.25		.20		.20	
18																.22		
19	.01	.12								.02		.07		.12		.05		.02
20	.01	.01	#.22			.11	.22			.21	.23			.15	.01			
21	.11				.06				.02		.07		.21				.02	
22																		
23		.17				.32		.26		.12		.12		.25		.29		.26
24			.09						.02		.02						.01	
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	.43	.63	.81		.24	.58	.30	.26	.25	.39	.37	.40	.46	.95	.23	.54	.26	.55

*Recording gages #Gage read at 10:00 A.M. ‡ Gage read at 8:30 A.M.

Form SCS-351 Page 2

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by W.S.
Checked by W.S.
Computed by W.S.
Checked by W.S.
Final check by E.S.

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 12 stations - West Tarkio Creek Watershed SHEET 5 OF 23 SHEETS

MONTH OF January & February 1940 January, 1940

STATION / DATE	NO. 32 7a.m.	NO. 32 7p.m.	NO. 21 7a.m.	NO. 21 7p.m.	NO. 23 7a.m.	NO. 23 7p.m.	NO.	NO. Daily Totals	NO. Daily Averages	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1			.01		.02			.18	.02									
2																		
3		.17			.03	.04		.45	.04									
4	6" old snow																	
5																		
6				.04		.13		.19	.02									
7	.20		.15		.26			2.59	.22									
8	10" old snow																	
9																		
10																		
11								.13										
12																		
13		.32		.18		.22		2.18	.18									
14			.03		.04			.68	.06									
15																		
16																		
17		.05	.01	.03		.03		.60	.05									
18	20" old snow				.01			.29	.02									
19																		
20																		
21	20" old snow																	
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31	12" old snow																	
TOTAL	.20	.54	.20	.25	.36	.42		7.17	.61	Total of Daily Averages								
	*Recording gages								.61	Average of Daily Totals								

February, 1940

STATION / DATE	NO. 32 7a.m.	NO. 32 7p.m.	NO. 21 7a.m.	NO. 21 7p.m.	NO. 23 7a.m.	NO. 23 7p.m.	NO.	NO. Daily Totals	NO. Daily Averages	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3		.09		.17		.18		1.40	.12									
4					.02			.25	.02									
5																		
6	7" old snow																	
7																		
8		.12		.08	.04	.14		1.25	.10									
9			.05		.03			.41	.03									
10																		
11																		
12																		
13	5" old snow																	
14																		
15																		
16		.32				.01		.33	.03									
17			.20		.20	.02		2.22	.18									
18								.02										
19		.06		.03		.04		.54	.04									
20		.07	.02					.64	.05									
21			.02		.05			.56	.05									
22																		
23		.12		.21		.28		2.46	.20									
24			.02		.01			.17	.01									
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL		.78	.31	.49	.35	.67		10.25	.83	Total of Daily Averages								
	*Recording gages								.83	Average of Daily Totals								

Form SCS-361

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by: W.S.
Checked by: W.S.
Computed by: W.S.
Checked by: W. S.
Final check by: F.S.

RECORD OF DAILY PRECIPITATION

NAME: West Tarkio Cr. Demonstration Project — LOCATION: Shenandoah, Iowa

PROJECT NO. Ia-1 — SHEET 6 OF 23 SHEETS

7 stations - West Tarkio Creek Watershed

MONTH OF January & February 1940 — January, 1940

STATION / DATE	NO. 29* 7a.m.	NO. 29* 7p.m.	NO.	NO. 48* 7a.m.	NO. 48* 7p.m.	NO.	NO. 49 7a.m.	NO. 49 7p.m.	NO.	NO. 50 7a.m.	NO. 50 7p.m.	NO. 51 7a.m.	NO. 51 7p.m.	NO. 52 7a.m.	NO. 52 7p.m.	NO.	NO. 55 7a.m.	NO. 55 7p.m.
1				.03								.09						
2																		
3				.02	.03			.17		.11	.05		.01					
4																		
5																	4" old snow	
6	Gage																	
7	abandoned			.14			.22			.16		.34	.06	.25				.34
8	for the				.02									1/2" old snow			7" old snow	
9	winter months																	
10																		
11																		
12																		
13				.09	.01			.45			.16		.30		.23			.40
14										.06								
15																		
16																		
17					.02			.00			.08				.04			.20
18				.02						.10								
19																	9" old snow	
20																		
21																		
22												.05						
23																		
24																	7" old snow	
25																		
26																		
27																		
28																		
29																		
30																	7" old snow	
31																		
TOTAL				.30	.08		.22	.71		.43	.29	.48	.37	.25	.27			.94

*Recording gages

Feb. 1940

STATION / DATE	NO. 29* 7a.m.	NO. 29* 7p.m.	NO.	NO. 48* 7a.m.	NO. 48* 7p.m.	NO.	NO. 49 7a.m.	NO. 49 7p.m.	NO.	NO. 50 7a.m.	NO. 50 7p.m.	NO. 51 7a.m.	NO. 51 7p.m.	NO. 52 7a.m.	NO. 52 7p.m.	NO.	NO. 55 7a.m.	NO. 55 7p.m.
1																		
2																		
3	Gage not				.12			.10			.14		.06		.18			.17
4	in operation			.03										.09				
5	this month																	
6																	11" old snow	
7																		
8					.05			.30			.21		.14					.21
9				.04						.15		.09		.12				
10																		
11																		
12																		
13																	14" old snow	
14																		
15																		
16								.12										
17				.16						.23		.19	.04	.16			.14	
18																		
19					.03						.06		.15					
20							.07			.07	.02	.05	.01	.04			.06	.16
21				.04						.05		.04						
22																		
23					.24			.60			.29		.14	.17				.10
24				.01						.05								
25																		
26																		
27																		
28																		3" old sn
29																		
30																		
31																		
TOTAL				.28	.44		.07	1.12		.55	.72	.37	.54	.52	.18		.10	.90

*Recording gages

Form SCS-331

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by: W.S.
Checked by: W.S.
Computed by: W.S.
Checked by: W.S.
Final check by: E.S.

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 SHEET 7

MONTH OF January & Feb. 1940 OF 23 SHEETS

9 stations - located in the proximity of Tarkio River and West Tarkio Creek Watersheds
January, 1940

DATE \ STATION	NO. 11 Near Westboro, Mo. 7a.m.	NO. 11 7p.m.	NO. 12 7a.m.	NO. 12 7p.m.	NO. 15 Tarkio 7a.m.	NO. 15 7p.m.	NO.	NO. 17 Mo. 7p.m.	NO. 18 Shenandoah, Ia. 7a.m.	NO. 18 7p.m.	NO. 19 Red Oak, Ia. 7a.m.	NO. 19 7p.m.	NO. 28 Clarinda, Ia. 7a.m.	NO. 28 7p.m.	NO. 53 Elliott, Ia. 7a.m.	NO. 53 7p.m.	NO. 54 Braddyville, Ia. 7a.m.	NO. 54 7p.m.
1									.07				.01					
2																		
3		.24	.02	.03				.06					.02	.03				
4	.05		7-1/2" old snow										5" old snow					
5			on the 6th															
6		.04		.05				.03										
7		.03	.31	.02	.61			.23	.30		#.27		.27	.01	No report		.30	
8			13-1/2" old snow										11" old snow		from this			
9															gage for			
10															this month			
11																		
12																		
13		.25		.33		.48		.53				.13		.27				.29
14	.17		.17					.03	.48				.10					
15																		
16																		
17		.03		.13		.08		.08						.05				.04
18	.04		23" old snow						.30				.01					
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	.26	.44	.50	.56	.61	.56		.96	1.21		.27	.13	.41	.36			.30	.32

#Gage read at 9:00 A.M. Feb. 1940 ‡Gage read at 8:00 P.M.

DATE \ STATION	NO. 11 Near Westboro, Mo. 7a.m.	NO. 11 7p.m.	NO. 12 7a.m.	NO. 12 7p.m.	NO. 15 Tarkio 7a.m.	NO. 15 7p.m.	NO.	NO. 17 Mo. 7p.m.	NO. 18 Shenandoah, Ia. 7a.m.	NO. 18 7p.m.	NO. 19 Red Oak, Ia. 7a.m.	NO. 19 7p.m.	NO. 28 Clarinda, Ia. 7a.m.	NO. 28 7p.m.	NO. 53 Elliott, Ia. 7a.m.	NO. 53 7p.m.	NO. 54 Braddyville, Ia. 7a.m.	NO. 54 7p.m.
1			4" old snow															
2															No record			
3		.05		.12		.03		.15				.10		.13	for first			
4			.03						.14						3 days of		.15	
5															Month.			
6																		
7																		
8		.28	.10	.24				.28				.09		.23		.16		.15
9	.16		.11		.40			.10	.27				.04					
10			10" old snow															
11			6" old snow															
12																		
13																		
14																		
15																		
16		.04	.02	.03	.23			.10										.04
17	.25		.23	.02				.21	.17		.16				.14		.18	
18																		
19		.09		.12				.10				.05		.19		.06		.04
20		.06	.04	.05				.15			.02			.03	.04		.05	
21			.23		.15			.10	.24						.05			
22																		
23		.19	.02					.25				.18		.20		.12		.20
24					.23				.15									
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	.41	.71	.63	.80	.99	.08		1.44	.97		.18	.42	.04	.78	.23	.34	.38	.43

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by W.S.
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Computed by W.S.
Checked by W.S. [illegible] F.S.
Final check by F.S.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 — 23 stations - Tarkio River Watershed

MONTH OF March, 1940 — SHEET 8 OF 23 SHEETS

DATE	NO. 32 7a.m.	NO. 32 7p.m.	NO. 34 7a.m.	NO. 34 7p.m.	NO. 1 7a.m.	NO. 1 7p.m.	NO. 25 7a.m.	NO. 25 7p.m.	NO. 35 7a.m.	NO. 35 7p.m.	NO. 36 7a.m.	NO. 36 7p.m.	NO. 26 7a.m.	NO. 26 7p.m.	NO. 37 7a.m.	NO. 37 7p.m.	NO. 38 7a.m.	NO. 38 7p.m.
1																		.01
2	.47	.21	.71		.59	.33	.65		.72	.26	.62	.10	.42	.30	.75	.10	.64	.10
3		.10	.13			.01												.02
4																		
5																		
6		.09				.10				.22		.15		.10				.15
7	.02	.03	.12		.11	.04			.10	.03	.03	.02	.35		.10		.07	.02
8			.05				.29								.08			
9	.01	.05			.03	.02		.12	.05	.04	.02	.01	.07				.03	
10			.15															
11		.02				.03		.06		.04		.01						.01
12		.20				.16				.20		.13		.16				.16
13	.10	.02	.32		.14		.02		.10		.03	.04	.17		.22		.11	.05
14																		
15			NOTE: Stations listed [illegible] watershed by location North to South															
16																		
17																		
18																		
19		.07				.13				.02		.05						.05
20			.14															
21																		
22																		
23	.11						.15		.04		.03						.04	
24	.11				.02				.04		.03		.10				.04	
25																		
26																		
27																		
28		.03	.01			.05				.02		.04						.05
29							.05								.10			
30																		
31																		
TOTAL	.72	.32	1.69		.39	.35	1.43	.13	1.05	.[illegible]	.25	.00	1.07	.56	1.25	.10	.93	.62

*Recording gages

April, 1940

DATE	NO. 32 7a.m.	NO. 32 7p.m.	NO. 34 7a.m.	NO. 34 7p.m.	NO. 1 7a.m.	NO. 1 7p.m.	NO. 25 7a.m.	NO. 25 7p.m.	NO. 35 7a.m.	NO. 35 7p.m.	NO. 36 7a.m.	NO. 36 7p.m.	NO. 26 7a.m.	NO. 26 7p.m.	NO. 37 7a.m.	NO. 37 7p.m.	NO. 38 7a.m.	NO. 38 7p.m.
1																		
2																		
3	.03				.04						.02							
4																		
5																		
6																		
7	.50	.03	.58	.2	.50	.35	.71	.35	.[illegible]	.22	.63	.15	.55	.19	.63	.20	.74	.17
8	.05		.05		.07		.09		.05		.03				.10		.03	
9																		
10	.05	.02		.04		.03	.07		.02		.04	.02	.05			.05	.05	.02
11																		
12																		
13																		
14																		
15																		
16																		
17	.22		.30	.08	.30		.10		.39		.30		.50		.25	.05	.45	
18	.04				.03						.02							
19																		
20																		
21	.02	.03	.03	.01	.02	.02		.06	.01	.03	.01	.02				.03	.01	.01
22		.20		.32		.25		.29		.30		.25		.29		.12		.25
23	.39		.42		.39		.31		.35		.28		.29		#.37	.02	.25	
24																		
25		.91		1.05		1.14		1.30		1.18		.83		.73		%.61		1.01
26	.02		.04		.03		.04		.05		.08		.26		.34		.10	
27																		
28		.50		%.65		.73		.45		.77		.63		.65		%.54		.55
29	.03		.12		.06		.15		.07		.10		.15		.19		.17	
30																		
31																		
TOTAL	1.40	1.97	1.54	2.37	1.53	2.43	1.47	2.16	1.62	2.51	1.56	1.96	1.91	1.86	1.38	1.62	1.80	2.01

*Recording gages #Gage read at 6:00 A.M. %Gage read at 6:00 P.M.

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by W.S.
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Checked by W.S. & E.S.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 — 23 stations - Tarkio River Watershed

MONTH OF March & April Ia 40 — March, 1940

SHEET 9 OF 23 SHEETS

DATE \ STATION	NO. 40 7a.m.	NO. 40 7p.m.	NO. 39 7a.m.	NO. 39 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 41* 7a.m.	NO. 41 7p.m.	NO. 42 7a.m.	NO. 42 7p.m.	NO. 27 7a.m.	NO. 27 7p.m.	NO. 4* 7a.m.	NO. 4 7p.m.	NO. 24 7a.m.	NO. 24 7p.m.	NO. 43 7a.m.	NO. 43 7p.m.
1																		
2	.68	.02		.76	.82		.43	.07		.88	.80		.78	.14	.85	.17	.80	.13
3								.01										
4																		
5																		
6		.15		.16				.06				.20		.28		.20		#.22
7	.07	.03	.09	.02	.25	.08	.05	.04		.31	.12		.05	.05	.26	.03	.09	
8																		
9	.07		.03		.02						.02		.01		.02		.01	
10																		
11														.02		.04		
12	.17	.10	.05	.16		.21		.15					.21	.06	.06	.10	.07	.17
13	.10		.10		.16	.01	.09		.32		.35				.16		.07	
14																		
15																		
16																		
17																		
18																		
19		.09		.06		.08		.12		.09		.10		.03		.06		.03
20																		
21																		
22																.02		
23	.04		.05															
24	.03		.03		.06			.02	.02				.01		.02			
25																		
26																		
27																		
28		.01		.06				.02		.06				.10	.02			.08
29																		
30	.02		.01												.02		.02	
31																		
TOTAL	1.18	.40	.36	1.22	1.31	.38	.57	.49	.34	1.34	1.29	.30	1.06	.68	1.41	.62	1.06	.63

*Recording gages #Gage read at 6:30 P.M.

April, 1940

DATE \ STATION	NO. 40 7a.m.	NO. 40 7p.m.	NO. 39 7a.m.	NO. 39 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 41* 7a.m.	NO. 41 7p.m.	NO. 42 7a.m.	NO. 42 7p.m.	NO. 27 7a.m.	NO. 27 7p.m.	NO. 4 7a.m.	NO. 4 7p.m.	NO. 24 7a.m.	NO. 24 7p.m.	NO. 43 7a.m.	NO. 43 7p.m.
1																		
2																		
3																		
4																		
5																		
6																		
7	.68	.24	%1.05	#.08	.90	.18	.55	.18		.96	.77	.14	.73	.19	.38	.14	.77	.17
8	.05		.02		.05		.02		.05		.03		.01		.04		.04	
9														.01				
10	.05		.07		.08		.10		.13		.08		.09	.01	.08			
11																		
12																		
13																		
14																		
15																		
16																		
17	.56		.46		.49		.50		.50		.51		.43		.50		.38	
18																		
19																		
20																		
21		.04	.03		.02									.02			.01	
22		.25		**.29		.26		.27				.30		.39		.21		.35
23	.24		.35		.28		.26		.57		.32		.16		.35		.22	
24																		
25		.37		1.06		.71		.70				.63		.64		.75		.49
26	.22		.15		.27		.21		1.08		.21		.26		.12		.29	
27																		
28		.65		#.84		.69		.55		.79		.61		.80		.74		.38
29	.20		.27		.08		.06		.11				.03				.09	
30																		
31																		
TOTAL	2.00	2.05	2.40	2.27	2.17	1.84	1.70	1.70	2.44	1.75	1.92	1.68	1.76	2.06	1.97	1.34	1.80	1.39

* Recording gages %Gage read at 10:00 A.M. #Gage read at 6:00 P.M. **Gage read at 6:30 P.M.

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by W.S.
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Checked by W.S. & E.S.
Final check by E.S.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration ~~Project~~ LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 — 23 stations - Tarkio River Watershed — SHEET 10 OF 23 SHEETS

MONTH OF March & April 19 40 — March, 1940

DATE \ STATION	NO. 45 7a.m.	NO 45 7p.m.	NO. 44* 7a.m.	NO. 44 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO. 46 7a.m.	NO. 46 7p.m.	NO. 47* 7a.m.	NO. 47 7p.m.	NO.	NO. Daily Totals	NO. Daily Averages	NO.	NO.	NO.	NO.	NO.
1												.01						
2	.78		.87	.18	.87		.82	.17	.89	.12		18.95	.82					
3												.27	.01					
4																		
5																		
6				.22				.27		.27		2.93	.13					
7	.30	.04	.14	.02	.35		.15		.17	.05		3.82	.17					
8												.41	.02					
9												.66	.03					
10												.15	.01					
11												.23	.01					
12				.26				.34		.34		3.51	.15					
13	.31		.09		.38		.12		.06			3.91	.17					
14																		
15																		
16																		
17																		
18																		
19				.07						.08		1.19	.05					
20												.14	.01					
21																		
22												.02						
23												.37	.02					
24	.04		.04		.01				.04			.58	.03					
25																		
26																		
27																		
28		.21		.01				.14		.04		.95	.04					
29					.05							.20	.01					
30												.07						
31																		
TOTAL	1.43	.25	1.14	.76	1.66		1.09	.92	1.16	.90		38.37	1.68	Total of Daily Averages				
													1.67	Average of Daily Totals				

*Recording gages

April, 1940

DATE \ STATION	NO. 45 7a.m.	NO. 45 7p.m.	NO. 44 7a.m.	NO. 44* 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO. 46 7a.m.	NO. 46 7p.m.	NO. 47 7a.m.	NO. 47* 7p.m.	NO.	NO. Daily Totals	NO. Daily Averages	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3												.09						
4																		
5																		
6																		
7	.70	.20	.83	.20		.90	.58	.26	.77	.17		20.76	.90					
8	.10		.02				.06		.02			.98	.04					
9												.01						
10	.05		.03		.02		.07		.02			1.34	.06					
11																		
12																		
13																		
14																		
15																		
16																		
17	.42		.49		.36		.48		.50			9.52	.41					
18												.09						
19																		
20																		
21																		
22		.38		.24				.40		.46		.43	.02					
23	.23		.26		.57		.30		.15			6.15	.27					
24												7.33	.32					
25		.23		.39				.22		.35		15.85	.69					
26	.47		.34		.67		.40		.18			5.83	.25					
27																		
28		.73		.65				.79		.65		14.84	.64					
29	.25		.07		.91		.19		.16			3.51	.15					
30																		
31																		
TOTAL	2.22	1.54	2.04	1.48	2.53	.90	2.08	1.67	1.80	1.63		86.73	3.77	Average of Daily Totals				
													3.75	Total of Daily Averages				

*Recording gages

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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Final check by E.S.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 — 12 stations - West Tarkio Creek Watershed

MONTH OF March & April 1940 — March, 1940

SHEET 11 OF 23 SHEETS

STATION / DATE	NO. 22 7a.m.	NO. 22 7p.m.	NO. 6 7a.m.	NO. 6 7p.m.	NO. 20 7a.m.	NO. 20 7p.m.	NO. 30 7a.m.	NO. 30 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 31 7a.m.	NO. 31 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.
1																.01		
2	.56	.18			.40	.07	.54		.66	.10	.53	.12		1.00	.87	.08	.67	.14
3		.04	(1).74			.02						.02						
4																		
5																		
6		.24				.13		.12		.13		.08		.30		.18		.17
7	.12	.04			.03	.04			.09	.04	.10	.03			.09	.03	.07	.07
8																		
9	.03	.05			.03	.02				.02		.01	.05				.01	.01
10			(2).38															
11		.04				.02								.05		.01		
12		.25				.13		.27	.03	.11		.13	.05	.15		.20		.27
13	.14	.03			.05				.09		.09		.10		.07		.04	.01
14			(1).33															
15																		
16																		
17																		
18																		
19		.03	.05			.03		.10		.04		.08				.02		.05
20																		
21																		
22																		
23	.04	.01			.02				.03						.01			
24	.04	.02	(1).03		.02						.02		.05				.02	
25																		
26																		
27																		
28		.10		.04		.07		.12		.08		.07		.15				.02
29														.05				
30							.02											
31																		
TOTAL	.93	1.02	1.53	.04	.55	.53	.56	.61	.90	.52	.79	.54	.25	1.70	1.04	.53	.81	.74

*Recording gages (1) Gage read at 8:00 A.M. April, 1940 (2) Gage read at 9:00 A.M.

STATION / DATE	NO. 22 7a.m.	NO. 22 7p.m.	NO. 6 7a.m.	NO. 6 7p.m.	NO. 20 7a.m.	NO. 20 7p.m.	NO. 30 7a.m.	NO. 30 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 31 7a.m.	NO. 31 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.
1																		
2																		
3							.02											
4																		
5																		
6																		
7	.72	.24			.66	.11	.65	.18	.77	.13	.61	.13	.54	.25	.71	.18	.54	.19
8	.45		.96		.02		.05		.04		.02				.05		.04	
9																		
10	.06			.09	.06	.01	.07		.06	.03	.07		.17		.11		.06	
11																		
12																		
13																		
14																		
15																		
16																		
17	.32			#.40	.31			.30	.44		.40		.45		.60		.35	
18	.02																	
19																		
20																		
21	.02	.02				.02		.04	.02		.01							
22		.36				.35		.37		.35		.37		.35		.50		.42
23	.25		.63		.34		.35		.29		.13		.25		.08		.10	
24																		
25		.59				.80		.62		.55		.69		.40		.50		.35
26	.05		.95		.06		.32		.42		.19		.40		.25		.19	
27																		
28		.78		.78		1.05		1.10		.89		.68		.75		.77		.71
29	.15		.10		.11		.11		.21		.09		.15		.15		.07	
30																		
31																		
TOTAL	1.64	2.39	2.64	1.27	1.56	2.33	1.56	2.61	2.23	1.95	1.52	1.87	2.06	1.76	1.75	1.95	1.35	1.67

*Recording gages #Gage read at 12:00 Noon

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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Final check by E.S.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

12 stations - West Tarkio Creek Watershed

PROJECT NO. Ia-1

MONTH OF March & April 19 40

March, 1940

SHEET 12 OF 23 SHEETS

DATE	NO. 32 7a.m.	NO. 32 7p.m.	NO. 21 7a.m.	NO. 21 7p.m.	NO. 23 7a.m.	NO. 23 7p.m.	NO.	NO. Daily Totals	NO. Daily Averages	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1								.01										
2	.95		.78	.07	.69	.09		8.55	.71									
3								.02	.07									
4																		
5																		
6		.19		.20		.26		2.00	.17									
7	.17	.05	.69	.03	.12	.10		1.31	.11									
8																		
9			.03		.02	.01		.39	.02									
10								.01	.01									
11								.13	.01									
12		.27	.02	.21	.02	.24		2.41	.20									
13	.10		.06	.01	.07			.86	.07									
14								.33	.03									
15																		
16																		
17																		
18																		
19		.02		.06		.08		.58	.05									
20																		
21																		
22																		
23								.11	.01									
24			.04		.04			.27	.02									
25																		
26																		
27																		
28		.03		.03		.05		.76	.06									
29								.05										
30								.02										
31																		
TOTAL	1.22	.56	1.02	.63	1.02	.83		18.37	1.56	Total of daily averages								

*Recording gages

Average of daily totals

April, 1940

DATE	NO. 32 7a.m.	NO. 32 7p.m.	NO. 21 7a.m.	NO. 21 7p.m.	NO. 23 7a.m.	NO. 23 7p.m.	NO.	NO. Daily Totals	NO. Daily Averages	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3								.01										
4																		
5																		
6																		
7	.62	#.22	.56	.18	.70	.21		9.20	.37									
8	.03		.01		.04			1.36	.11									
9																		
10	.03		.08		.08			1.01	.08									
11																		
12																		
13																		
14																		
15																		
16																		
17	.45		.61		.45			4.68	.39									
18								.02										
19																		
20																		
21			.02		.01	.01		.16	.01									
22		.49		.50		.45		4.52	.38									
23	.09		.05		.10			2.66	.22									
24																		
25		.22		.29		.11		5.52	.46									
26	.37		.14		.34			3.68	.31									
27																		
28		.73		.83		.84		9.91	.82									
29	.14		.21		.04			1.53	.13									
30																		
31																		
TOTAL	1.83	1.66	1.48	1.80	1.76	1.62		44.26	3.69	Average of Daily Totals								
									3.58	Total of Daily Averages								

Gage read at 6:00 P.M.

*Recording gages

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by W.S.
Checked by W.S.
Computed by W.S.
Checked by W.S. & E.S.
Final check by E.S.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project — LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 — 7 stations - West Tarkio Creek Watershed — SHEET 13 OF 23 SHEETS

MONTH OF March & April 1940 — March, 1940

STATION / DATE	NO. 29 7a.m.	NO. 29 7p.m.	NO.	NO. 48* 7a.m.	NO. 48* 7p.m.	NO.	NO. 49 7a.m.	NO. 49 7p.m.	NO.	NO. 50 7a.m.	NO. 50 7p.m.	NO. 51 7a.m.	NO. 51 7p.m.	NO. 52 7a.m.	NO. 52 7p.m.	NO.	NO. 55 7a.m.	NO. 55 7p.m.
1																		
2	.65	.05		.65	.12			.75		.76	.16	.68	.06	.71			.17	
3		.03								.04								
4																		
5																		
6		.02			.10			.30			.25		.26					.21
7		.13		.03	.03		.10			.16	.15	.12	.04	.29				
8				.02						.02								
9		.02		.01	.01					.02		.03		.04				
10										.01								
11													.02					
12					.14			.10		.07	.09	.03	.09					
13				.04			.36			.06		.28		.38			.20	
14																	.33	
15																		
16																		
17																		
18																		
19		.02			.04						.04		.03					
20																		
21																		
22																		
23										.01			.06				.10	
24		.01								.04		.03					.04	
25																		
26																		
27																		
28					.08						.17		.08					
29																		
30	.02									.03								
31																		
TOTAL	.67	.28		.75	.52		.46	1.15		1.42	.86	1.17	.64	1.42			.84	.21

April, 1940

STATION / DATE	NO. 29* 7a.m.	NO. 29 7p.m.	NO.	NO. 48* 7a.m.	NO. 48 7p.m.	NO.	NO. 49 7a.m.	NO. 49 7p.m.	NO.	NO. 50 7a.m.	NO. 50 7p.m.	NO. 51 7a.m.	NO. 51 7p.m.	NO. 52 7a.m.	NO. 52 7p.m.	NO.	NO. 55 7a.m.	NO. 55 7p.m.
1																		
2																		
3																		
4																		
5																		
6																		
7	.20	.07		.60	.22		.72			.71	.17	.84	.05	.72	.20		.70	.20
8	.02			.02				.20		.04							.20	
9																		
10	.04			.10			.11			.14	.01	.06			.08			
11																		
12																		
13																		
14																		
15																		
16																		
17	.17			.37			.40			.46	.02	.35		.33			1.02	
18																		
19																		
20																		
21	.01	.02		.02	.01					.03	.03						.04	
22		.45			.39			.50			.36		.38		.50			.18
23	.07			.14			.70			.21				.34			.23	
24																		
25		.44			.52			.60			.56		1.08		.80			.47
26	.33			.33			.28			.36		.07		.16			.22	
27																		
28		.64			.89			.67			.83		.78		1.09			.72
29	.10			.05			.12			.07		.09		.11			.08	
30																		
31																		
TOTAL	.94	1.62		1.63	2.03		2.33	1.97		2.02	1.98	1.41	2.29	1.66	2.67		2.49	1.57

*Recording gages

Form SCS-361

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by: W.S.
Checked by: W.S.
Computed by: W.S.
Checked by: W.S. & E.S.
Final check by: E.S.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 — 9 stations - located in the proximity of Tarkio River and West Tarkio River Creek Watersheds — SHEET 14 OF 23 SHEETS

MONTH OF March & April 1940

March, 1940

DATE \ STATION	No. 11 Near Westboro, Mo. 7a.m.	No. 11 Near Westboro, Mo. 7p.m.	No. 12 Mo. 7a.m.	No. 12 Mo. 7p.m.	No. 15 Near Tarkio, Mo. 7a.m.	No. 15 Near Tarkio, Mo. 7p.m.	No. 17 Mo. 7p.m.	No. 18 Shenandoah, Ia. 7a.m.	No. 18 Shenandoah, Ia. 7p.m.	No. 19 Red Oak, Ia. 7a.m.	No. 19 Red Oak, Ia. 7p.m.	No. 28 Clarinda, Ia. 7a.m.	No. 28 Clarinda, Ia. 7p.m.	No. 53 Elliott, Ia. 7a.m.	No. 53 Elliott, Ia. 7p.m.	No. 54 Braddyville, Ia. 7a.m.	No. 54 Braddyville, Ia. 7p.m.	NO.
1																		
2	.70	.09	.77	.05	.89		1.25	.85		.76		.61	.04	.60		.73	.05	
3														.05				
4																		
5																		
6		.20		# .26			.50						.20		.10		.24	
7		.16	.24	.06		.65	.41	.29			.01	.17	.01	.07	.04	.18		
8								.04										
9								.08		.02			.02	.09	.04			
10																		
11				.02														
12		.17	.17	.20	.42		.66					.20		.03	.20		.39	
13		.24	.16				.10	.33		.35		.20	.05	.05		.10		
14								.02									.02	
15																		
16																		
17																		
18																		
19		.06		.03			.13		.02				.12				.10	
20																		
21																		
22															.04			
23										.02								
24			.03		.04		.05	.02				.04		.05				
25																		
26																		
27																		
28		.05		.09			.07		.09				.02		.02			
29			.02															
30														.02				
31																		
TOTAL	.70	.97	1.39	.71	1.35	.65	3.22	1.63	.11	1.15	.01	1.22	.46	.96	.44	1.01	.80	

#Gage read at 5:00 P.M.

April, 1940

DATE \ STATION	No. 11 Near Westboro 7a.m.	No. 11 Near Westboro 7p.m.	No. 12 Mo. 7a.m.	No. 12 Mo. 7p.m.	No. 15 Tarkio 7a.m.	No. 15 Tarkio 7p.m.	No. 17 Mo. 7p.m.	No. 18 Shenandoah, Ia. 7a.m.	No. 18 Shenandoah, Ia. 7p.m.	No. 19 Red Oak, Ia. 7a.m.	No. 19 Red Oak, Ia. 7p.m.	No. 28 Clarinda, Ia. 7a.m.	No. 28 Clarinda, Ia. 7p.m.	No. 53 Elliott, Ia. 7a.m.	No. 53 Elliott, Ia. 7p.m.	No. 54 Braddyville, Ia. 7a.m.	No. 54 Braddyville, Ia. 7p.m.	NO.
1																		
2																		
3																		
4																		
5																		
6																		
7	.45	.18	.69	.22	.85		.75			.73	.14	.70	.18	.49	.22	.75	.25	
8	.07		.04				.17	.33				.03		.03				
9																		
10	.09		.04		.04		.08	.12		.07		.12			.03	.10		
11																		
12																		
13																		
14																		
15																		
16																		
17	.48		.64	.01	.58		.58	.44		.40		.63		.45	.01	.80	.05	
18																		
19																		
20																		
21			.02	.01					.02			.03		.03				
22		#.27		.08			.60				.49		.15		.27		.30	
23	.33		.45		.54		.10	.53		.51		.30		.40		.25		
24																		
25		.10		.14			.58				.75		.44	.02	1.07		.23	
26	.23		.30					.89		.23		.48		.05		.37		
27																		
28		.75		.86		.85	.92		.58		.64		.57		.62		.55	
29	.18		.04		.06			.07		.11		.17		.12		.05		
30																		
31																		
TOTAL	1.83	1.30	2.22	1.32	2.07	.85	3.78	2.88	.60	2.07	1.93	2.46	1.34	1.59	2.22	2.32	1.38	

#Gage read at 5:00 P.M.

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by: W.S.
Checked by: W.S.
Computed by: W.S.
Checked by: W.S.
Final check by: E.S.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project — LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 — 23 stations - Tarkio River Watershed — SHEET 15 OF 23 SHEETS

MONTH OF May and June 19 40 — May, 1940

STATION / DATE	NO. 33* 7a.m.	NO. 33 7p.m.	NO. 34 7a.m.	NO. 34 7p.m.	NO. 1* 7a.m.	NO. 1 7p.m.	NO.25 7a.m.	NO. 25 7p.m.	NO. 35 7a.m.	NO.35 7p.m.	NO.36* 7a.m.	NO. 36 7p.m.	NO. 26 7a.m.	NO.26 7p.m.	NO. 37 7a.m.	NO. 37 7p.m.	NO. 38* 7a.m.	NO. 38 7p.m.
1																		
2																		
3																		
4																		
5																		
6		.17		.22		.26				.25		.15		.31		.35		.38
7	.10	.09	.07	.20	.05	.19		.26	.03	.24	.06	.17	.06	.04	.04	.03	.06	.10
8			.02				.06						.14		.03			
9																		
10	.02								.01		.03				.02		.22	
11																		
12																		
13																		
14		.07		.04		.08		.05		.03		.03				.04		
15	.04										.02							
16																		
17																		
18	.05	.56	.30	.50	.22	.46	.12	.73	.27	.46	.20	.67	.36	.66	.23	.68	.26	.63
19																		
20						.01										.29		.40
21	.04		.06		.07		.06		.08		.05		.65		.01			
22																		
23																		
24															.01		.02	
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	.25	.89	.45	.96	.34	1.00	.24	1.04	.39	1.00	.35	1.02	1.21	1.01	.39	1.39	.36	1.56

NOTE: Stations listed in each watershed by location North to South

*Recording gages

June, 1940

STATION / DATE	NO. 33* 7a.m.	NO. 33 7p.m.	NO. 34 7a.m.	NO. 34 7p.m.	NO. 1* 7a.m.	NO. 1 7p.m.	NO. 25 7a.m.	NO. 25 7p.m.	NO. 35 7a.m.	NO. 35 7p.m.	NO. 36* 7a.m.	NO. 36 7p.m.	NO.26 7a.m.	NO. 26 7p.m.	NO.37 7a.m.	NO. 37 7p.m.	NO.38 7a.m.	NO.38 7p.m.
1																		
2																		
3																		
4	.56		.68		.72		.99		1.10		1.22		.81		.85		.91	
5																		
6																		
7		.53		.35		.05		.05		.02		.06				.06		
8																		
9																		
10																		
11		.14		.17		.20		.30		.25		.14		.16		.20		.21
12	.63		.62	.02	.66		.40		.36		.37		.50		.39		.32	
13												.05				.02		.02
14																		
15																		
16																		
17																		
18																		
19																		
20	.01					.17				.17	.02	.10	.04	.16		.17	[illegible]	[illegible]
21																		
22		.85		.43		.30		.71		.77		.43		.24		.25		.32
23	.63	.02	1.03		.87		.66				.68		.95		.77		.96	.01
24																		
25																		
26																		
27																		
28	.10		.08		.08		.08		.19		.63		.52		.60		.69	
29																		
30																		
31																		
TOTAL	1.93	1.54	2.41	.97	2.33	.72	2.13	1.06	1.65	1.21	2.96	.78	2.82	.56	2.61	.70	2.92	.74

*Recording gages

Form SCS-351 Page 2

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by: W. C.
Checked by: W.S.
Computed by: W. S.
Checked by: W. S.
Final check by: F. S.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa
23 stations - Tarkio River Watershed
May, 1940

PROJECT NO. Ia-1
MONTH OF May and June 1940
SHEET 16 OF 23 SHEETS

DATE	NO. 40 7a.m.	NO. 40 7p.m.	NO. 39 7a.m.	NO. 39 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 41* 7a.m.	NO. 41 7p.m.	NO. 42 7a.m.	NO. 42 7p.m.	NO. 27 7a.m.	NO. 27 7p.m.	NO. 4* 7a.m.	NO. 4 7p.m.	NO. 24 7a.m.	NO. 24 7p.m.	NO. 43 7a.m.	NO. 43 7p.m.
1			.01															
2																		
3																		
4																		
5																		
6		.23	.37			.05		.12		.09		.18		.11		.15		.10
7	.04	.12	.05	.10	.18	.20	.03	.23	.10			.28		.15		.16	.08	.19
8	.02								.21				.01					
9																		
10	.06				.03		.05		.03				.02				.04	
11																		
12																		
13																		
14		.01																
15																		
16																		
17																	.01	
18	.36	.66	(1) .78	(2) .27	.28	.69	.28	.57	.33	.73	.37	.59	.23	.65	.34	.56	.28	.48
19																		
20		.13		.19		.10		.05						.01		.03		
21									.09		.08		.02					
22																		
23																		
24	.03																	
25																		
26																		
27																		
28																		
29																		
30																		
31														.03				
TOTAL	.51	1.20	1.21	.56	.54	1.04	.36	.97	.76	.82	.45	1.05	.28	.93	.34	.90	.41	.77

*Recording gages (1) Gage read at 11:45 A.M. June, 1940 (2) Gage read at 4:00 P.M.

DATE	NO. 40 7a.m.	NO. 40 7p.m.	NO. 39 7a.m.	NO. 39 7p.m.	NO. 3 7a.m.	NO. 3 7p.m.	NO. 41* 7a.m.	NO. 41 7p.m.	NO. 42 7a.m.	NO. 42 7p.m.	NO. 27 7a.m.	NO. 27 7p.m.	NO. 4* 7a.m.	NO. 4 7p.m.	NO. 24 7a.m.	NO. 24 7p.m.	NO. 43 7a.m.	NO. 43 7p.m.
1																		
2																		
3																		
4	.36		.84		.38		1.02		.90		1.08		.38		1.04		.29	
5																		
6								.01										
7								.01										
8																		
9																.02		
10																		
11		.23		.19		.22		.33				.26		.15		.26		.30
12	.27		.34		.39		.26		.65		.38		.37	.01	.35		.24	.02
13													.05	.02				
14																		
15																		
16																		
17																		
18		.09																
19																		
20	.10	.29	.23		.15	.17	.12	.16	.17	.33	.13	.23	.16	.25	.26	.32	.34	.29
21																		
22		.19		.28				.03						.07		.24		.25
23	.87		.97		.52		.33		.39		.46		.40	.01			.39	.02
24																		
25																		
26																		
27																		
28	.45		.36		.50		.51		1.03		.68		.47		.70		.22	
29																		
30																		
31																		
TOTAL	2.55	.80	2.74	.47	2.44	.39	2.24	.54	3.14	.33	2.78	.54	2.33	.51	2.35	.34	2.08	.79

*Recording gages

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by: W.S.
Checked by: W.S.
Computed by: W.S.
Checked by: W.S.
Final check by: E.S.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration ~~Project~~ LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 — 23 stations - Tarkio River Watershed

MONTH OF May and June 19 40 — May, 1940

SHEET 17 OF 23 SHEETS

DATE	NO. 45 7a.m.	NO. 45 7p.m.	NO. 44* 7a.m.	NO. 44* 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO. 46 7a.m.	NO. 46 7p.m.	NO. 47* 7a.m.	NO. 47* 7p.m.	NO.	NO. Daily Totals	NO. Daily Averages	NO.	NO.	NO.	NO.	NO.
1												.01						
2																		
3																		
4																		
5																		
6		.15		.25		.39		.17		.23		4.73	.21					
7		.14		.07			.03	.02		.04		4.00	.17					
8			.01				.04					.59	.03					
9																		
10			.02									.39	.02					
11																		
12																		
13																		
14												.35	.02					
15												.06						
16																		
17			.02									.03						
18	.33	.57	.21	.57		.91		.89	.25	.57		20.13	.88					
19																		
20	.04					.12						1.37	.06					
21			.02				.09		.36			1.68	.07					
22																		
23																		
24				.02								.08						
25																		
26																		
27																		
28																		
29																		
30																		
31												.01						
TOTAL	.37	.86	.28	.91		1.42	.16	1.08	.61	.84		33.48	1.46	Total of Daily Averages				
													1.46	Average of Daily Totals				

*Recording gages

June, 1940

DATE	NO. 45 7a.m.	NO. 45 7p.m.	NO. 44* 7a.m.	NO. 44* 7p.m.	NO. 5 7a.m.	NO. 5 7p.m.	NO. 46 7a.m.	NO. 46 7p.m.	NO. 47* 7a.m.	NO. 47* 7p.m.	NO.	NO. Daily Totals	NO. Daily Averages	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4	.33		.72		.71		.90		.71			20.20	.88					
5																		
6				.02						.01		.04						
7												1.13	.05					
8																		
9												.02						
10																		
11		.25		.20				.21	.01	.30		4.68	.20					
12	.30		.37	.03	.50		.41		.19			9.35	.41					
13	.02							.02				.20	.01					
14							.08					.08						
15																		
16																		
17																		
18				.03								.12	.01					
19									.03			.03						
20	.42		.16	.21		.46	.22	.29	.16	.28		6.06	.22					
21																		
22		.10						.05				5.51	.24					
23	.39		.59	.01	.71		.40	.05	.54	.03		13.66	.59					
24																		
25																		
26																		
27	.12											0.12	0.01					
28			.21		.20		.05		.10			8.50	.37					
29																		
30																		
31																		
TOTAL	2.08	.35	2.05	.50	2.12	.46	2.06	.62	1.74	.62		70.50	3.07	Total of Daily Averages				
													3.07	~~Average of Daily Totals~~				

*Recording gages

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Coded by: W.S.
Checked by: W.S.
Computed by: W.S.
Checked by: W.S.
Final check by: E.S.

RECORD OF DAILY PRECIPITATION

NAME: West Tarkio Cr. Demonstration Project — LOCATION: Shenandoah, Iowa

12 stations - West Tarkio Creek Watershed

PROJECT NO. Ia-1 — SHEET 18 OF 23 SHEETS

MONTH OF May & June 1940 — May, 1940

STATION / DATE	NO. 22* 7a.m.	NO. 22 7p.m.	NO. 6 7a.m.	NO. 6 7p.m.	NO. 20* 7a.m.	NO. 20 7p.m.	NO. 30 7a.m.	NO. 30 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16* 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 31 7a.m.	NO. 31 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.
1																		
2																		
3																		
4																		
5																		
6		.24		.17		.21		.38		.25		.10		.12		.14		.13
7		.24				.12	.03		.04	.13	.02	.17		.15	.02	.10		.09
8			#.28				.17											
9																		
10					.05		.05											
11																		
12																		
13																		
14		.04																
15	.01																	
16																		
17									.02		.02							
18	.24	.52		.22	.24	.46	.48	.51	.45	.63	.20	.60	.35		.27	.65	.30	.70
19																		
20								.40		.14		.13		.10		.07		.27
21	.09		.11		.02				.02		.03						.03	
22																		
23																		
24					.02		.02											
25										.04								
26																		
27																		
28																		
29																		
30																		
31													.02					
TOTAL	.34	1.04	.39	.99	.33	.79	.75	1.29	.53	1.19	.27	1.00	.37	.37	.29	.96	.33	.99

*Recording gages

June, 1940 — Rain read at 9:00 A.M.

STATION / DATE	NO. 22* 7a.m.	NO. 22 7p.m.	NO. 6 7a.m.	NO. 6 7p.m.	NO. 20* 7a.m.	NO. 20 7p.m.	NO. 30 7a.m.	NO. 30 7p.m.	NO. 7 7a.m.	NO. 7 7p.m.	NO. 16* 7a.m.	NO. 16 7p.m.	NO. 10 7a.m.	NO. 10 7p.m.	NO. 31 7a.m.	NO. 31 7p.m.	NO. 9 7a.m.	NO. 9 7p.m.
1																		
2																		
3																		
4	.01		1.03		1.05		.73		.95		.77		.25		.33		.72	
5																		
6												.01						.01
7				.09		.02										.01		
8																		
9																		
10																		
11		.25				.15		.17		.15		.04		.12		.19		.19
12	.47	.02	.74		.37		.40		.32		.38	.02	.26		.41	.03	.37	
13		.02										.04				.04		
14																		
15																		
16																		
17																		
18																		
19																		
20	.04	.14	.02	.02	.09	.15	.21	.12	.17	.22	.10	.27	.30	.12	.22	.21	.13	[illegible]
21																		
22		.64		.58		.43		.43		.10		.01						.03
23	1.59		.75		.96		.93		.57		.25		.45		.27	.02	.39	.04
24																		
25																		
26																		
27																		
28	.30	.02	.32		.48		.46		.43		.60		.28		.05		.08	
29																		
30																		
31																		
TOTAL	3.31	1.09	2.96	.70	2.85	.75	2.73	.72	2.44	.55	2.10	.39	2.14	.35	1.89	.50	1.67	.92

*Recording gages

Form SCS-351 Page 2

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

Copied by: W. S.
Checked by: W. S.
Computed by: W. S.
Checked by: W. S.
Final check by: E. S.

NAME West Tarkio Cr. Project LOCATION Shenandoah, Iowa

PROJECT NO. [illegible] 22 stations - West Tarkio Creek Watershed SHEET 19

MONTH OF May, 1940 May, 1940 OF 23 SHEETS

DATE	NO. 32 7a.m.	NO. 32 7p.m.	NO. 21* 7a.m.	NO. 21 7p.m.	NO. 23* 7a.m.	NO. 23 7p.m.	NO.	NO. Daily Totals	NO.	NO. Daily Averages	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4																		
5																		
6		.23		.35	.7[illegible]	.09		2.50		.22								
7		.06		.05		.05		1.27		.10								
8								.45		.04								
9																		
10								.10		.01								
11																		
12																		
13																		
14								.04										
15								.01										
16																		
17			.02		.10			.10		.02								
18	.50	.20	.47	.23	.44	.23		11.20		.94								
19																		
20		.15		.60		.30		2.[illegible]		.[illegible]								
21			.24		.20			.60		.05								
22																		
23																		
24					.01	.02		.07		.01								
25						.05		.10		.01								
26																		
27																		
28																		
29																		
30																		
31	.04		.02					.02		.01								
TOTAL	.62	1.27	.55	1.22	1.03	1.34		18.86		1.58	Total of Daily Averages							
										1.57	~~Average of Daily Totals~~							

*Recording gages

June, 1940

DATE	NO. 32 7a.m.	NO. 32 7p.m.	NO. 21* 7a.m.	NO. 21 7p.m.	NO. 23* 7a.m.	NO. 23 7p.m.	NO.	NO. Daily Totals	NO.	NO. Daily Averages	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1																		
2																		
3																		
4	.56		.41		.20			9.04		.75								
5																		
6				.01		.03		.06										
7								.12		.01								
8																		
9																		
10																		
11		.24		.22		.24		2.04		.17								
12	.30	.01	.29		.31			4.70		.39								
13								.10		.01								
14																		
15																		
16																		
17																		
18																		
19																		
20	.39	.56	.32	.41	.49	.34		5.06		.49								
21																		
22						.03		2.75		.19								
23	.27	.05	.20	.02	.13	.05		6.84		.57								
24																		
25																		
26																		
27																		
28	.14		.11		.20			3.47		.29								
29																		
30																		
31																		
TOTAL	1.66	.86	1.33	.66	1.33	.69		34.43		2.87	Total of Daily Averages							
										2.87	~~Average of Daily Totals~~							

*Recording gages

Form SCS-351

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Copied by: W. S.
Checked by: W. S.
Computed by: W. S.
Checked by: W. S.
Final check by: E. S.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration ~~Project~~ LOCATION Shenandoah, Iowa

PROJECT NO Ia-1

7 stations - West Tarkio Creek Watershed

SHEET 20 OF 23 SHEETS

MONTH OF May & June 19 40

May, 1940

STATION / DATE	NO. 29* 7a.m.	NO. 29 7p.m.	NO.	NO. 48* 7a.m.	NO. 48 7p.m.	NO.	NO. 49 7a.m.	NO. 49 7p.m.	NO.	NO. 50 7a.m.	NO. 50 7p.m.	NO. 51 7a.m.	NO. 51 7p.m.	NO. 52 7a.m.	NO. 52 7p.m.	NO. 55 7a.m.	NO. 55 7p.m.	NO.
1																		
2																		
3																		
4																		
5																.04		
6	.02	.06			.14			.12			.13		.30		.18	.07		
7		.18		.02	.10			.10		.07	.18	.02	.17		.21		.45	
8										.02						.03		
9																		
10										.02								
11																		
12																		
13																		
14													.04					
15																		
16																		
17				.05														
18	.26	.64		.16	.65		.40	.62		.27	.63	.25	.48	.34	.56	.23	.60	
19																		
20		.09			.05						.06		.01					
21	.01						.11			.03				.06		.11		
22																		
23																		
24											.02							
25																		
26																		
27																		
28																		
29																		
30																		
1				.01	.01					.03								
TOTAL	.29	.97		.24	.95		.51	.84		.44	1.07	.27	1.00	.40	.95	.48	1.05	

*Recording gages

June, 1940

STATION / DATE	NO. 29* 7a.m.	NO. 29 7p.m.	NO.	NO. 48* 7a.m.	NO. 48 7p.m.	NO.	NO. 49 7a.m.	NO. 49 7p.m.	NO.	NO. 50 7a.m.	NO. 50 7p.m.	NO. 51 7a.m.	NO. 51 7p.m.	NO. 52 7a.m.	NO. 52 7p.m.	NO. 55 7a.m.	NO. 55 7p.m.	NO.
1																		
2																		
3																		
4	.66			.65			.70			.74		.98		.90		.64	.02	
5																	.04	
6					.01													
7											.03							
8																		
9																		
10																		
11		.17			.15						.31		.22				.05	
12	.37	.02		.29			.65			.22	.06	.48		.63		1.51		
13		.10			.07		.15			.02	.09							
14																		
15																		
16																		
17																		
18					.02						.04							
19	.20	.20														.10		
20				.21	.20			.52		.61	.19		.16	.20		.04		
21																		
22		.04			.04						.08		.90		.49		.15	
23	.39	.01		.33			.50			.44	.03	1.36		.32		.40		
24																		
25																		
26																		
27																		
28	.08			.40			.18			.47		.30		.61		1.24		
29																		
30																		
TOTAL	1.70	.54		1.38	.49		2.18	.52		2.50	.83	3.12	1.28	3.16	.49	3.53	.26	

*Recording gages

Form SCS-351

Copied by: W.S.
Checked by: W. S.
Computed by: W.S.
Checked by: W.S.
Final check by: E.S.

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION
RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 — 9 stations located in the proximity of Tarkio River and West Tarkio Creek Watershed

MONTH OF May & June 19 40 — SHEET 21 OF 23 SHEETS

May, 1940

DATE \ STATION	NO. 11 Near Westboro, Mo. 7a.m.	NO. 11 7p.m.	NO. 12 Mo. 7a.m.	NO. 12 7p.m.	NO. 15 Tarkio, Mo. 7a.m.	NO. 15 7p.m.	NO.	NO. 17 Mo. 7p.m.	NO. 18 Shenandoah, Ia. 7a.m.	NO. 18 7p.m.	NO. 19 Red Oak, Ia. 7a.m.	NO. 19 7p.m.	NO. 28 Clarinda, Ia. 7a.m.	NO. 28 7p.m.	NO. 53 Elliott, Ia. 7a.m.	NO. 53 7p.m.	NO. 54 Bradyville, Ia. 7a.m.	NO. 54 7p.m.
1													.22					
2																		
3																		
4																		
5																		
6			.48	.02		.28		.20		.13		.23	.17	.03		.20	.21	
7		.06	.04	.03		.06		.56	.01	.16		.25	.04	.10	.20	.20		.10
8			.04					.11					.03					
9																		
10			.01										.02		.22		.04	
11																		
12																		
13																		
14														.01		.08		
15																		
16									.01									
17	.07		.02					.16					.03					
18	.45	.75	.40	.71	.40	.35		1.05		.72	.37	.31	.36	.59	.09	.34	.35	.56
19																		
20		.60		.30						.22								
21	.05		.11		.52			.20	.04		.10		.06		.09		.45	
22																		
23																		
24				.04				.15					.01					
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL	.57	1.41	1.16	1.10	1.19	1.19		2.43	.06	1.27	.47	.79	.80	.73	.40	.82	1.05	.66

June, 1940

DATE \ STATION	NO. 11 Near Westboro, Mo. 7a.m.	NO. 11 7p.m.	NO. 12 Mo. 7a.m.	NO. 12 7p.m.	NO. 15 Tarkio, Mo. 7a.m.	NO. 15 7p.m.	NO.	NO. 17 Mo. 7p.m.	NO. 18 Shenandoah, Ia. 7a.m.	NO. 18 7p.m.	NO. 19 Red Oak, Ia. 7a.m.	NO. 19 7p.m.	NO. 28 Clarinda, Ia. 7a.m.	NO. 28 7p.m.	NO. 53 Elliott, Ia. 7a.m.	NO. 53 7p.m.	NO. 54 Bradyville, Ia. 7a.m.	NO. 54 7p.m.
1																		
2																		
3								.38										
4	.42		.20		.22				.30		1.02		.78				.31	
5																		
6		.04	.01					.02						.08				
7			.02													.20		
8																		
9														.03				
10																		
11		.20	.02	.24	.64	.02		.48				.02	.04	.13		.27		.54
12	.40		.34					.12	.65	.03	.52		.51	.04	.44		.22	
13															.02			.12
14																		
15																		
16																		
17																		
18																		
19													.01					
20	.35	.40	.53	.37	.60	.23		.79		.55		.36	.18	.40		.32	.46	.2
21																		
22				.02				.06		.21		.65		.04		.15		
23	.19	.06	.33	.15		.03		.42	.28		1.04		.46	.03	1.65		.62	.05
24																		
25																		
26																		
27																		
28	.12		.26		.23			.20	.11		.02		.91		.18		.10	
29																		
30																		
31																		
TOTAL	1.48	.70	1.71	.78	1.69	.28		2.57	1.84	.79	2.60	1.03	2.87	.55	2.29	.34	1.95	.91

Form SCS-[illegible]

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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Computed by W.S.
Checked by W.S.
Final check by W.S.

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration ~~Project~~ LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 SHEET 22 OF 23 SHEETS

Weekly measurement of snow on ground in inches of precipitation for all recording rain gages

MONTH OF January & February, 1940 — January, 1940 — West Tarkio Creek Watershed — Tarkio River Watershed

DATE \ STATION	NO. 22	NO. 20	NO. 16	NO. 9	NO. 21	NO. 23	NO. 48	NO. Weekly Average	NO.	NO. 33	NO. 1	NO. 36	NO. 38	NO. 41	NO. 4	NO. 44	NO. 47	NO. Weekly Average
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8															1.02			
9	.35	1.36	1.34	.85	.70	.91	1.00	1.00		1.20	.82	1.20	.90	.90		.77	.60	.83
10																		
11																		
12																		
13																		
14																		
15															2.21			
16	1.67	1.52	2.20	1.60	1.48	2.02	1.52	1.72		3.42		3.20	2.15	2.50		1.08	1.60	2.31
17																		
18																		
19																		
20																		
21																		
22		2.05		1.05	.80	2.42	.75	1.56					2.43	1.50	2.55	1.02	1.10	1.77
23	1.62		2.20							2.90	1.10	.90						
24																		
25																		
26																		
27																		
28																		
29															2.92			
30	1.34	2.42	2.30	1.14	1.60	3.00	2.15	1.99		2.10	1.22	1.55	2.17	1.84		2.30	.78	1.92
31																		
TOTAL																		

February, 1940

DATE \ STATION	NO. 22	NO. 20	NO. 16	NO. 9	NO. 21	NO. 23	NO. 48	NO. Weekly Average	NO.	NO. 33	NO. 1	NO. 36	NO. 38	NO. 41	NO. 4	NO. 44	NO. 47	NO. Weekly Average
1																		
2																		
3																		
4																		
5																		
6	2.20	2.45	1.58	1.68	1.78	1.20	1.80	1.81		2.17	1.62	1.65	2.30	2.00	2.92		1.05	2.16
7																2.30		
8																		
9																		
10																		
11																		
12				1.38	2.16	3.13	3.10	2.33					2.83		3.32	2.60	3.56	2.54
13		2.76	2.38											2.00				
14	1.34									2.30	1.42	2.25						
15																		
16																		
17																		
18																		
19																		
20	2.23	1.68	1.36	1.22	1.47	1.34	1.35	1.60		1.44	1.75	1.00				2.52	1.25	2.05
21													4.00	1.80	1.89			
22																		
23																		
24																		
25																		
26												.20	1.80	2.03	2.50		.90	1.30
27	2.15	.80	1.55	.48	1.77	1.20	.98	1.28			.96							
28										.72								
29																		
30																		
31																		
TOTAL																		

Form SCS-351

Copied by: W.S.
Checked by: W.S.
Computed by: W.S.
Checked by: W.S. & E.S.
Final check by: E.S.

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

RECORD OF DAILY PRECIPITATION

NAME West Tarkio Cr. Demonstration Project LOCATION Shenandoah, Iowa

PROJECT NO. Ia-1 SHEET 23 OF 23 SHEETS

MONTH OF March & April 1940

Weekly measurement of snow on ground in inches of Precipitation for all recording rain gages

West Tarkio Creek Watershed March, 1940 Tarkio River Watershed

STATION / DATE	NO. 22	NO. 20	NO. 16	NO. 9	NO. 21	NO. 23	NO. 48	NO. Weekly Average	NO.	NO. 33	NO. 1	NO. 36	NO. 38	NO. 41	NO. 4	NO. 44	NO. 47	NO. Weekly Average
1																		
2																		
3																		
4																		
5																		
6																		
7													.25	.32				.28
8																		
9																		
10																		
11																		
12																		
13		.32						.46			.18	.30	.36	.24				.29
14	.60									.38								
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL																		

Note: Practically no old snow on ground after March 1st.

All snow measurements shown below are of new snow that had fallen a few hours or a day or two before measurement was made.

April, 1940

STATION / DATE	NO. 22	NO. 20	NO. 16	NO. 9	NO. 21	NO. 23	NO. 48	NO. Weekly Average	NO.	NO. 33	NO. 1	NO. 36	NO. 38	NO. 41	NO. 4	NO. 44	NO. 47	NO. Weekly Average
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
TOTAL																		

No snow measurements during the month of April

Tabulations of Hydrologic Data

HOURLY PRECIPITATION FROM RECORDING GAGES

1934 to 1940

Form SCS-376

Project No. SCS-Ia-1
Shenandoah, Iowa

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

STATION No. 4 — Aug. to Dec. 1934 DATA Hourly precipitation from recording gage No. 4

Tarkio River Watershed

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
August 1934																											
4				.36																					.36		4
11		.04	.03				.01	.01																	.09		11
12																							.02		.02		12
15						.01	.12	.05		.01	.01	.01				.01									.22		15
18																			.03		.05				.08		18
20			.02								.02														.04		20
23																					.04				.04		23
30		.10		.01																		.04	.07	.01	.23		30
31	.03	1.00																	.01	.03	.06	.01	.01	.07	1.22		31
Sums	.03	1.14	.05	.37		.01	.13	.06		.01	.03	.01				.01			.04	.03	.15	.05	.10	.08	2.30		Sums
September 1934																											
1	.11																								.11		1
2																				.42	.17	.17	.05	.01	.82		2
3	.12	.08	.06	.08	.02	.04																			.40		3
9																				.06	.16	.02	.05	.08	.37		9
14																.07	.03	.38	.20				.12		.80		14
15				.04																					.04		15
20															.02				.06	.05				.02	.15		20
21			.01	.02	.06	.03																			.12		21
25													.11	.02					.28	.06	.26	.02	.39	.20	1.34		25
26	.08	.09	.06	.09	.07																				.39		26
28												.26		.03											.29		28
SUMS	.31	.17	.13	.23	.15	.07						.26	.11	.05	.02	.07	.03	.38	.54	.59	.59	.21	.61	.31	4.83		SUMS
MEANS																											MEANS

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
October 1934																											
16					.10																				.10		16
17																											17
18						.05	.05	.02	.07	.12	.18	.05	.02	.02	.03										.61		18
19	.05	.01		.07	.20	.18	.43	.18	.42		.22	.02						.05	.11						1.93		19
20		.13	.05	.02																					.20		20
23						.06																			.06		23
Sums	.05	.14	.05	.09	.30	.29	.47	.20	.49	.12	.40	.07	.02	.02	.03			.05	.11						2.90		Sums
November 1934																											
2																						.05	.05	.04	.14		2
3	.11	.13	.13	.16	.04	.07	.18	.03	.20	.16	.01	.03													1.25		3
17												.02	.05	.02	.11	.03	.03	.07	.06	.04		.06	.01		.50		17
18																											18
19																				.04	.06	.09		.01	.20		19
20	.02	.01		.01	.10	.09	.12	.02																	.37		20
21			Snow started 1:15 p.m.																								21
22			Snow stopped a.m.								(.47)														.47		22
25											.02	.06	.07	.07	.09	.08	.08	.05	.02	.01	.09			.03	.67		25
26			.03	.01																					.04		26
27																		.03	.03	.04					.15		27
30			Snow in a.m.								(.02)														.02		30
Sums	.13	.14	.16	.18	.14	.16	.30	.05	.20	.16	.52	.11	.12	.09	.20	.11	.11	.15	.16	.13	.15	.20	.06	.03	3.81		Sums
December, 1934																											
6													Snow in p.m.					(.05)							.05		6
18							.01	.01	.01	.02	.03	.02													.10		18
SUMS							.01	.01	.01	.02	.03	.02						.05							.15		SUMS
MEANS																											MEANS

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Final check by: G.N.M. & E.S.

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-Ia-1
Shenandoah, Iowa

STATION No. 9 — Aug. to Dec. 1934 DATA Hourly precipitation from recording gage No. 9

West Tarkio Creek Watershed

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
												August 1934															
30																					.02	.06	.07	.07	.22		30
31	.01	.22																		.09	.01	.06		.08	.47		31
Sums	.01	.22																		.09	.03	.12	.07	.15	.69		Sums
												September 1934															
1	.15	.03																							.18		1
2																				.04	.28	.01	.09	.05	.47		2
3	.07	.03	.04	.04	.01	.02																			.21		3
9																			.01	.07	.05		.09	.16	.38		9
10	.02		.01																						.03		10
13					.02	.10																			.12		13
Sums	.24	.06	.05	.04	.03	.12													.01	.11	.33	.01	.18	.21	1.39		Sums
												October 1934															
16				.03																					.03		16
18						.05	.06	.01	.06	.10	.10	.08	.05	.05										.03	.59		18
19	.10		.02	.10	.42	.58	.18		.28								.02	.16				.01			1.87		19
20	.01	.23	.05																						.29		20
23					.10	.11																			.21		23
Sums	.11	.23	.07	.13	.52	.74	.24	.01	.34	.10	.10	.08	.05	.05			.02	.16				.01		.03	2.99		Sums
SUMS																											SUMS
MEANS																											MEANS

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
												November 1934															
2																					.02	.05	.03	.04	.14		2
3	.07	.13	.16	.17	.05	.08	.02	.08	.07	.02	.03														.88		3
17										.02	.05	.02	.03	.11	.02	.04	.05	.05	.05			.06			.50		17
19																				.03	.07	.01	.01	.03	.15		19
20	.02			.02	.13	.07	.07																		.31		20
21														.04			.04	.08	.03	.05	.03				.32		21
22						.01																			.01		22
Sums	.09	.13	.16	.19	.18	.16	.09	.08	.07	.04	.08	.02	.03	.15	.02	.04	.09	.13	.13	.08	.12	.12	.04	.07	2.31		Sums
SUMS																											SUMS
MEANS																											MEANS

No record for this gage from Dec. 1, 1934 to Jan. 27, 1935.

Form SCS-376

Project No. SCS-Ia-1
Shenandoah, Iowa

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

STATION No. 4 -- Jan. to May 1935 DATA Hourly precipitation from recording gage No. 4

Tarkio River Watershed

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	DATE
												January 1935															
7																							.01	.02	.03		7
8								.01		.01															.02		8
9									.01																.01		9
12		.02	.05													.01	.02	.04							.14		12
16									.02	.06															.08		16
18																				.04	.04	.21	.02		.31		18
19		.06	.05	.11																					.22		19
Sums		.08	.10	.11				.01	.03	.07						.01	.02	.04		.04	.04	.21	.03	.02	.81		Sums
												February 1935															
7		Snow in A.M.							(.11)																.11		7
13														.02	.04	.02	.02			.02					.12		13
14				.07	.02								.02										.02		.24		14
15	.01																								.01		15
24													Snow from 1:00 P.M. - 10:00 P.M. (.24)												.24		24
Sums	.01			.07	.02				.11			.03		.02	.04	.02	.02			.02		.24	.02		.62		Sums
												March 1935															
3																				.01	.01		.01	.02	.05		3
4	.01	.01	.01																						.03		4
6												Snow started 9:00 A.M.; stopped P.M.(.21)													.11		6
16								Snow		(.10)															.10		16
27					.02	.01																			.03		27
30				.01																					.01		30
Sums	.01	.01	.01	.01	.02	.01					.10									.12	.01		.01	.02	.33		Sums
												April 1935															
6																						.05	.05	.04	.14		6
7	.02	.04	.02	.02	.04	.03	.03																		.20		7
9														.02	.05	.02									.09		9
10						.03	.01						.01		.01										.06		10
11				.01				.03																	.04		11
24											.01														.01		24
28			.01		.05	.02	.01				.03														.12		28
SUMS	.02	.04	.03	.03	.09	.08	.05	.03			.04		.01	.03	.06	.01						.05	.05	.04	.66		SUMS
MEANS																											MEANS

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	DATE
												May 1935															
1		.33	.01		.01																				.35		1
2																											2
3																											3
4																											4
5																											5
6																											6
7																	.05	.03							.08		7
8																		.03							.03		8
9																											9
10																											10
11										.05	.02	.02									.42	.05			.56		11
12																					.03			.01	.04		12
13	.18	.01			.02	.11	.02	.05		.06	.01						.05					.02	.12	.08	.73		13
14					.01							.01													.02		14
15												.01		.01	.03	.10	.16	.12						.01	.44		15
16	.01																								.01		16
17																											17
18				.01	.02	.02	.02	.04					.01				.02	.04	.03	.04	.03				.28		18
19	.18	.12	.19	.11	.07	.04	.02				.04										.01	.04	.09	.19	1.10		19
20	.09	.03	.02	.21	.16	.02					.02	.04	.09	.06	.07	.03									.84		20
21																											21
22											.02	.02	.02	.02	.01	.21	.01	.24	.15						.70		22
23							.01		.01		.01														.03		23
24																											24
25																											25
26																											26
27		.04	.01	.06	.01																	.01	.02	.67	.82		27
28	.41	.09	.02	.11	.07	.08	.06	.01																	.85		28
29																	.02		.15	.09					.26		29
30																											30
31									.16	.55	.14		.11	.34	.01										1.31		31
SUMS	.87	.62	.25	.50	.37	.27	.13	.10	.17	.66	.26	.10	.23	.43	.12	.34	.31	.46	.33	.13	.49	.12	.23	.96	8.45		SUMS
MEANS																											MEANS

Form SCS-376

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Final check by: G.N.M. & E.S.

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-Ia-1
Shenandoah, Iowa

STATION No. 9 — Jan. to May, 1935 DATA Hourly precipitation from recording gage No. 9

West Tarkio Creek Watershed

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
	Note:- No record from Dec. 1, 1934 to Jan. 27, 1935											February 1935															
9											.05	.05													.10		9
13														.02	.02	.02	.01				.01				.08		13
14				.06	.09	.02						.01		.01			.01								.20		14
Sums				.06	.09	.02					.05	.06		.03	.02	.02	.02				.01				.38		Sums
												March 1935															
3																						.01	.02	.02	.05		3
4	.01	.01	.03																						.05		4
7												.02	.01												.03		7
25		.02																							.02		25
Sums	.01	.03	.03									.02	.01									.01	.02	.02	.15		Sums
												April 1935															
6																			.05	.04	.05	.07	.03	.01	.25		6
7	.03	.03	.03	.01																					.10		7
9														.02	.08	.02									.12		9
10		.01	.01	.03	.01		.01																		.07		10
11							.02																		.02		11
24							.06	.04																	.10		24
28					.04			.01			.04	.01													.10		28
Sums	.03	.04	.04	.04	.05		.09	.05			.04	.01		.02	.08	.02			.05	.04	.05	.07	.03	.01	.76		Sums
SUMS																											SUMS
MEANS																											MEANS

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
												May 1935															
6																											6
7																	.06								.06		7
11									.05	.03	.01	.01	.01							.10	.07	.03			.31		11
12																							.24	.02	.26		12
13	.02				.03			.05	.02							.03					.01	.03	.02	.01	.22		13
14				.02																					.02		14
15													.01	.02	.16	.13	.03						.02		.37		15
18			.03	.01	.01	.07	.01				.01			.01	.01	.02	.02	.03	.01	.02	.01	.01	.20	.06	.54		18
19	.12	.11	.06	.03	.01	.02	.01		.04												.02	.14	.18	.08	.82		19
20	.05	.22	.25	.06	.03	.01			.03	.06	.04	.12	.24	.25	.04		.01								1.00		20
22										.05	.01	.03	.02		.02										.13		22
26													.01	.02	.10										.13		26
27									.05	.55	.50	.10	.13	.01	.05	.01	.02		.12						1.54		27
29				.01	.03	.08																			.12		29
30																			.03	.08	.24	.09	.04	.58	1.07		30
31	.05	.01																.05							.11		31
Sums	.24	.34	.34	.13	.11	.18	.02	.05	.18	.69	.07	.26	.51	.11	.38	.19	.14	.08	.35	.02	.37	.30	.70	.70	6.70		Sums
SUMS																											SUMS
MEANS																											MEANS

Form SCS-376

Project No. SCS-Ia-1
Shenandoah, Iowa

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

STATION No. 4 — June to Aug. 1935 DATA Hourly precipitation from recording gage No. 4

Tarkio River Watershed

June 1935

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID T	SUM	MEAN	DATE
1							.02	.02	.01	.02	.26	.10	.12		.01		.04	.21	.28	.01				.01	.91		1
2																			.26						.26		2
3																	.12	.28	.03	.02					.45		3
4								.02																	.02		4
5																				.52	.14				.66		5
6																											6
7																											7
8																											8
9																											9
10			.28	.02																					.30		10
11																											11
12																											12
13																			.01						.01		13
14																											14
15																											15
16																											16
17								.29	.10		.09							.30	.03	.23	.17	.27	.19	.21	1.38		17
18	.16	.09	.04		.04	.01	.01	.03	.05	.01															.44		18
19																											19
20							.06	.15	.01	.01															.23		20
21			.01	.05		.01																			.07		21
22																											22
23																											23
24							.68	.10	.01																.79		24
25				.07		.01	.05	.02																	.15		25
26				.53	.08																				.61		26
27																											27
28																											28
29																											29
30									.02	.01	.15	.02													.20		30
SUMS	.16	.09	.33	.67	.12	.03	.82	.63	.39	.25	.50	.11	.12		.01		.16	.79	.21	.78	.31	.27	.19	.22	7.16		SUMS
MEANS																											MEANS

July 1935

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID T	SUM	MEAN	DATE
4					.03																				.03		4
5		.04																							.04		5
8																								.64	.64		8
9	.06					.06	.02																		.14		9
21																								.02	.02		21
22	.02	.01																							.03		22
23																				.23	.13	.02			.38		23
Sums	.08	.05			.03	.06	.02													.23	.13	.02		.66	1.28		Sums

August 1935

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID T	SUM	MEAN	DATE
2		.03															.07								.10		2
9																	.22								.22		9
17			.85																						.85		17
18																											18
19								.03				.02	.02										.03	.12	.22		19
20	.04	.04																							.08		20
21																											21
22							.20	.20	.11	.02															.53		22
29								.05																	.05		29
30																							.02	.03	.05		30
31	.04	.01					.02	.02	.05	.05	.02	.01											.12	.10	.44		31
SUMS	.08	.08	.85				.22	.30	.16	.07	.02	.03	.02				.29						.17	.25	2.54		SUMS
MEANS																											MEANS

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Checked by W.M.M.
Final check by G.N.M. & E.S.

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

STATION No. 9 — June to Aug. 1935 DATA Hourly precipitation from recording gage No. 9

West Tarkio Creek Watershed

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
June 1									.01	.33	.21	.13				.02	.13	.19	.01			.01	.02		1.06		1
2																		.07							.07		2
3																			.03						.03		3
4													.06												.06		4
5																			.25	.26					.51		5
6							.01		.01					.02											.04		6
8																	.03								.03		8
10			.17																						.17		10
13														.02											.02		13
14																											14
15																			.08						.08		15
17									.30	.07	.03	.06		.02			.02			.79	.03	.17	1.11	.20	2.71		17
18	.17	.08	.10	.01			.01																		.37		18
20								.14	.04	.02		.04													.24		20
24						.27	.20					.01		.01				.01							.50		24
25			.03		.02		.04				.01														.10		25
26			.65	.13	.04											.02									.84		26
30								.22	.08	.21	.01					.01									.60		30
SUMS	.17	.08	.95	.14	.06	.27	.26	.43	.42	.63	.26	.24	.06	.07		.05	.13	.27	.37	.26	.03	.18	1.13	.20	7.43		SUMS
MEANS																											MEANS

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
July 1935																											
4													.01						.01	.01					.03		4
5	.01																								.01		5
8																					.03				.03		8
9				.02										.02											.04		9
23																			.20	.25	.04	.01			.50		23
24															.01										.01		24
Sums	.01			.02									.01	.02	.01				.21	.26	1.02	.01			1.57		Sums
August 1935																											
1																.02									.02		1
2		.01					.02	.02																	.04		2
19											.02											.04	.05		.11		19
20	.11																								.11		20
22						.15	.25	.10																	.50		22
29							.10																		.10		29
30																						.01	.02	.08	.11		30
31		.02			.01		.07	.10		.13	.02										.02	.22	.06	.02	1.37		31
Sums	.11	.03			.01	.15	.40	.22		.13	.07					.02					.02	.27	.13	.06	2.39		Sums
SUMS																											SUMS
MEANS																											MEANS

Form SCS-376

Project No. SCS-Ia-1
Shenandoah, Iowa

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

STATION No. 4 — Sept. to Dec. 1935 DATA Hourly precipitation from recording gage No. 4

Tarkio River Watershed

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	DATE
September 1935																											
1		.02			.05	.35	.08	.30	.26	.35	.21														1.62		1
2							.02																		.02		2
3																				.04					.04		3
7																								.04	.04		7
8	.21	.02	.09	.07	.04	.06	.01	.03	.12	.03															.68		8
16					.42																				.42		16
25								.05		.02									.35	.47	.23	.26	.19	.14	1.71		25
26	.07	.05	.06	.11	.03	.01	.01																		.34		26
Sums	.28	.09	.15	.18	.54	.42	.12	.38	.38	.40	.21								.35	.51	.23	.26	.19	.18	4.87		Sums
October 1935																											
7	.	.03	.06	.03																					.12		7
8																					.07	.14	.01		.22		8
9																											9
16																					.33	.05	.04		.42		16
17	.14	.16	.07	.08	.14	.06	.05	.08	.08																.86		17
20																		.02	.01						.03		20
21		.01	.03																						.04		21
25												.02	.04												.06		25
26											.03														.03		26
27	.04																								.04		27
30																.06	.04	.02		.07			.04		.23		30
31			.01		.01	.08	.15	.62																	.87		31
SUMS	.18	.20	.17	.11	.15	.14	.20	.70	.08		.03	.02	.04			.06	.04	.04	.01	.07	.40	.19	.09		2.98		SUMS
MEANS																											MEANS

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	DATE
November 1935																											
2	.02	.08	.07	.01							.01					.01				.01				.07	.28		2
3	.16	.11	.09	.02			.03	.03	.02	.07	.09	.06	.05	.04	.04	.01									.82		3
11							.02	.02																	.04		11
18																					.02	.05	.03	.06	.16		18
19	.01																								.01		19
26																								.08	.08		26
27	.05	.04	.07	.03	.07	.03	.09	.08	.07	.03	.01	.01	.04	.02			.01								1.05		27
Sums	.24	.23	.23	.11	.17	.03	.14	.13	.09	.15	.11	.07	.09	.06	.04	.02	.01			.01	.02	.05	.03	.21	2.44		Sums
December 1935																											
5																		.01	.01	.03	.01	.02	.05	.03	.16		5
6				.02																					.02		6
24																				.02*	.01*				.03		24
31														.01	.01										.02		31
Sums				.02										.01	.01			.01	.01	.05	.02	.02	.05	.03	.23		Sums
SUMS																											SUMS
MEANS																											MEANS

* Snow

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Checked by: W. M. M.
Final check by: G. N. M. & E. S.

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET
Sheet 6 of 6 Sheets

Project No. SCS-Ia-1
Shenandoah, Iowa

STATION No. 9 — Sept. to Dec. 1935 DATA Hourly precipitation from recording gage No. 9

West Tarkio Creek Watershed

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	DATE
September 1935																											
1									.07	.37	.10														.54		1
3																		.01	.02						.03		3
7																							.04	.16	.20		7
8	.11		.03	.01	.10	.02	.01	.10	.02																.40		8
16					.26																				.26		16
25							.02		.04	.02	.01								.31	.45	.17	.20	.20	.16	1.58		25
26	.07	.03	.07	.12	.03																				.32		26
Sums	.18	.03	.10	.13	.39	.02	.03	.10	.13	.39	.11							.01	.33	.45	.17	.20	.24	.32	3.33		Sums
October 1935																											
7		.02	.06	.06	.05	.01																			.20		7
9																						.10	.10		.20		9
16																					.50	.10			.60		16
17	.05	.07	.02	.11	.23	.04	.06	.04	.10	.03	.02			.01											.78		17
20																			.10						.10		20
30															.10	.28	.04		.09				.03	.03	.37		30
31				.22	.10	.30	.40	.46												.02	.02		.01		1.13		31
Sums	.05	.09	.03	.10	.22	.35	.46	.51	.12	.03	.02			.01	.10	.03	.04		.19	.02	.02	.10	.04	.03	2.29		Sums
SUMS																											SUMS
MEANS																											MEANS

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	DATE
November 1935																											
1	.02	.01	.01	.01	.02																				.08		1
2		.08	.02	.02																	.01	.02	.01	.05	.21		2
3	.10	.39				.10	.03		.11	.02	.09	.06	.04	.09	.02										1.05		3
18													.02					.01	.02	.02	.01		.02	.08	.18		18
19	.02																								.02		19
26												.10	.15	.05	.06	.11	.18	.15	.10	.10	.06	.06	.02	.02	1.16		26
27	.03	.01																							.04		27
Sums	.17	.49	.03	.03	.02	.10	.03		.11	.02	.09	.16	.21	.14	.08	.11	.18	.16	.12	.12	.08	.08	.05	.05	2.74		Sums
December 1935																											
5																			.02	.02	.02	.02	.02	.03	.13		5
6	.05		.01	.01	.01		.01		.01		.01			.01											.12		6
24		.02	.01	.01	.01	.01																			.06		24
Sums	.05	.02	.02	.02	.02	.01	.01		.01		.01			.01					.02	.02	.02	.02	.02	.03	.31		Sums
SUMS																											SUMS
MEANS																											MEANS

Form SCS-376

Project No. SCS-Ia-1
Shenandoah, Iowa

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

STATION No. 4, Jan. to July 1936 DATA Hourly precipitation from recording gage No. 4

TARKIO RIVER WATERSHED

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	DATE
												January 1936															
1		.01	.01		.02		.01		.01										.01	.03	.04	.02	.02	.02	.20		1
2	.03	.03	.04	.03	.04	.04	.02		.01	.01	.12	.03	.01												.41		2
3																											3
4	Snow started 3:35 P.M., Jan. 4														.07		Snow stopped A.M., Jan. 5								.07		4
7	Snow started 9:50 P.M., Jan. 7														.21		Snow stopped 8:30 A.M., Jan. 8								.21		7
15	Snow started 7:20 P.M., Jan. 15														.13		Snow stopped 4:00 A.M., Jan.16								.13		15
16																											16
17	Snow started 7:50 P.M., Jan. 17														.31		Snow stopped 10:20 A.M., Jan.18								.31		17
21	"	"		3:55 P.M., Jan. 21											.07		"	"		4:20 A.M., Jan.22					.07		21
22																											22
23	"	"		Midnt, Jan. 22											.04		"	"		3:00 A.M., Jan.23					.04		23
24	"	"		6:00 P.M., Jan. 24											.34		"	"		9:12 A.M., Jan.25					.34		24
28	"	"		3:50 P.M., Jan. 28											.03		"	"		1:00 A.M., Jan.29					.03		28
Sums	.03	.04	.05	.03	.06	.04	.03		.02	.01	.12	.03	.01		1.20				.01	.03	.04	.02	.02	.02	1.81		Sums
												February 1936															
3	Snow started 12:40 A.M., Feb. 3														.13		Snow stopped 4:30 A.M., Feb.4								.13		3
7	"	"		10:30 P.M., Feb. 7											.16		"	"		12:30 P.M., Feb.8					.16		7
12	"	"		6:00 P.M., Feb. 12											.02		"	"		3:00 A.M., Feb.13					.02		12
16	"	"		11:30 P.M., Feb. 16											.12		"	"		8:30 A.M., Feb.18					.12		16
21	"	"		7:20 A.M., Feb. 21											.04		"	"		10.30 A.M., Feb. 21					.04		21
26	.02	.01	.01																						.04		26
Sums	.02	.01	.01												.47										.51		Sums
												March, 1936															
10									.01																.01		10
22																.07	.01			.02	.07	.04			.21		22
SUMS									.01							.07	.01			.02	.07	.04			.22		SUMS
MEANS																											MEANS

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	DATE
												April 1936															
1	.03	Snow in A.M.																							.03		1
2	.01	"	"	"																					.01		2
10				.01		.01																			.02		10
20																		.02	.01						.03		20
26											.02	.01	.02									.01			.05		26
27	.02	.01	.01							.04		.06	.10	.11	.01									.01	.37		27
28																	.61	.12			.01	.26	.09	.01	1.10		28
29	.01																								.01		29
30																					.12	.42			.54		30
Sums	.07	.01	.01	.01		.01				.04	.02	.07	.01	.11	.01		.61	.14	.01		.13	.69	.09	.02	2.16		Sums
												May 1936															
1	.05	.20	.07	.17	.25	.02	.01	.02																	.80		1
3			.03	.01																					.04		3
5																							.17	.04	.21		5
8																	.18	.14	.13	.25	.10	.02	.02	.10	.94		8
9	.03			.34	.24	.01		.04			.01	.09	.02	.16		.04	.15	.01							1.15		9
10																			.02	.03					.05		10
12					.02	.20	.04	.03			.06	.03													.38		12
23												.03	.01	.03	.03										.10		23
24													.03	.09	.06		.02								.20		24
Sums	.08	.20	.10	.52	.52	.23	.05	.09			.07	.15	.06	.28	.09	.04	.35	.15	.15	.28	.10	.02	.19	.14	3.87		Sums
												June 1936															
5													.03	.12	.15	.01		.13	.02	.04	.04	.53	.14	.03	1.35		5
6	.06	.04	.01	.01	.01	.02	.03	.10																	.28		6
9										.58	.01														.59		9
16																			.03	.05					.08		16
29	.02																								.02		29
30		.16	.17	.10	.07	.04																			.54		30
Sums	.08	.20	.18	.11	.08	.06	.03	.10		.58	.01		.03	.12	.15	.01		.18	.11	.09	.04	.53	.14	.03	2.86		Sums
												July 1936															
19																				.79	.14				.93		19
27																			.07						.07		27
Sums																			.07	.79	.14				1.00		Sums

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Checked by: W.M.M.
Final check by: G.N.M. & E.S.

Form SCS-376

Project No. SCS-Ia-1
Shenandoah, Iowa

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET
Sheet 2 of 4 Sheets

STATION No. 9 — Jan. to July 1936 DATA Hourly precipitation from recording gage No. 9

West Tarkio Creek Watershed

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	DATE
												January 1936															
1		.02	.01	.01	.01	.01																			.06		1
										Gage not in operation from Jan. 1, 1936 to March 29, 1936																	
												March 1936															
										Mar. 1 - Mar. 28, no record																	
										Mar. 29 - Mar. 31, no precipitation																	
												April 1936															
11											.02	.02		.01	.01	.01	.03								.10		11
12																			.05						.05		12
13																			.02						.02		13
19											.02	.03	.02	.01											.08		19
20															.02		.08	.02							.12		20
27										.02	.01	.08	.09	.05											.25		27
28												.02				2.18	.05				.20	.20	.04	.06	2.75		28
29	.04																								.04		29
30								.01		.01		.01	.01		.01	.01	.01				.20				.27		30
Sums	.04							.01		.03	.05	.16	.12	.07	.04	2.20	.17	[illegible]	.07		.40	.20	.04	.06	3.63		Sums
SUMS																											SUMS
MEANS																											MEANS

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	DATE
												May 1936															
1	.40	.07	.12	.26	.02																				.87		1
4	.03												.02		.01	.01									.07		4
5																						.03	.10		.13		5
8																	.45	.33	.07	.25	.02		.02	.04	1.30		8
9	.04		.16	.15	.13	.02								.08		.16									.74		9
11		.04										.02													.06		11
12					.02	.20	.03	.20	.10	.20	.03		.02												.80		12
23												.02	.04	.02	.02										.10		23
24								.01	.02	.01		.01		.14	.06	.01	.01								.27		24
Sums	.47	.11	.28	.41	.17	.22	.03	.21	.12	.21	.03	.05	.08	.24	.09	.18	.46	.33	.07	.25	.02	.03	.24	.04	4.34		Sums
												June 1936															
5													.03	.13	.17	.10		.10	.06	.08		.09	.07		1.63		5
9										.05															.05		9
15																				.06					.06		15
29															.06										.06		29
Sums										.05			.03	.13	.23	.10		.10	.06	.14		.29	.07		1.80		Sums
												July 1936															
19																				.03	.04				.08		19
27																					.07				.07		27
SUMS																				.04	.11				.15		SUMS
MEANS																											MEANS

Form SCS-376

Project No. SCS-Ia-1
Shenandoah, Iowa

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

STATION No. 4 — Aug. to Dec. 1936 DATA Hourly precipitation from recording gage No. 4

TARKIO RIVER WATERSHED

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID T	SUM	MEAN	DATE
August 1936																											
3																		.01							.01		3
4																			.04	.11	.03				.18		4
5			.01	.15	.03																				.19		5
15			.03																		.03	.04			.10		15
19					.01	.04		.01						.04				.17	.07	.05	.02				.41		19
20																											20
21									.01								.05	.01		.05	.09				.21		21
22		.10		.03													.07								.20		22
28													.02	.22	.01	.04									.29		28
Sums		.10	.04	.18	.04	.04		.01	.01				.02	.26	.01	.04	.12	.19	.11	.21	.17	.04			1.59		Sums
September 1936																											
1											.07									.02					.09		1
4											.14	.47				.53	.31	.17	.19	.33	.21	.11		.12	2.28		4
5	.01																								.01		5
6																							.06		.06		6
9									.02																.02		9
10																											10
11																	.14	.06	.06	.04	.03	.22	.08		.73		11
12								.02	.06	.15	.13		.01	.02	.02	.01	.02	.06	.29	.01					.80		12
15													.02	.04	.01				.15		.05				.27		15
26				.04	.10	.16	.12	.18	.12	.08	.13	.21	.25	.07	.03	.06	.02								1.57		26
29																							.04	.09	.13		29
SUMS	.01	.		.04	.10	.16	.12	.20	.20	.23	.47	.38	.28	.13	.06	.60	.49	.29	.69	.40	.29	.43	.18	.21	5.96		SUMS
MEANS																											MEANS

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID T	SUM	MEAN	DATE
October 1936																											
4											.02	.02		.10	.29	.01	.08	.22	.04	.08	.02		.08	.04	1.00		4
5								.04																	.04		5
6																					.02				.02		6
8																				.04					.04		8
20													.04												.04		20
25																	.11	.03							.14		25
Sums								.04			.02	.02	.04	.10	.20	.01	.19	.25	.04	.12	.04		.08	.04	1.28		Sums
November 1936																											
1							.03																		.03		1
2						.30																			.30		2
26		.02*																							.02		26
Sums		.02				.30	.03																		.35		Sums
December 1936																											
5			.41* Snow started 4:00 A.M. and stopped 9:00 P.M., Dec. 5																						.41		5
18										.02	.02	.01	.01			.01	.01								.08		18
26				.10	.06													.03							.19		26
30				.63	.18	.03		.02																	.86		30
SUMS			.41	.73	.24	.03		.02		.02	.02	.01	.01			.01	.01	.03							1.54		SUMS
MEANS																											MEANS

* Snow

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Checked by: W.M.M.
Final check by:
G.N.M. & E.S.

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-Ia-1
Shenandoah, Iowa

STATION No. 9 — August to December 1936 DATA Hourly precipitation from recording gage No. 9

WEST TARKIO CREEK WATERSHED

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	1	2	3	4	5	P.M. 6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
August 1936																											
4																	.04			.03					.07		4
5			.03	.06	.16																				.25		5
15						.11																			.11		15
19																		.10	.10	.05	.65	.40			1.30		19
21	.02	.02	.02	.02	.02			.14			.08	.04					.08								.44		21
28	.08	.06	.08	.06																					.28		28
Sums	.10	.08	.13	.14	.18	.11		.14			.08	.04					.12	.10	.10	.08	.65	.40			2.45		Sums
September 1936																											
1																								.45	.45		1
4										.04	.19	.03		.02		.80	.10	.12	.03	.25	.18	.19		.03	2.18		4
11																				.02	.08	.26			.36		11
12						.02	.04	.08	.06	.14			.04		.01		.05	.38							.82		12
13						.05																			.05		13
15										.02	.02	.01		.05				.10	.02	.03	.03				.28		15
26							.09	.20	.06	.12	.13	.10	.08	.16	.30	.20	.01	.04	.05						1.54		26
29																						.02	.05	.07	.14		29
30	.01																								.01		30
Sums	.01					.07	.13	.28	.12	.32	.34	.14	.12	.23	.31	1.00	.16	.44		.22		.47	.05	.55	5.83		Sums
SUMS																											SUMS
MEANS																											MEANS

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	1	2	3	4	5	P.M. 6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
October 1936																											
4											.06			.05		.02	.11	.02	.13	.35	.05		.20		1.23		4
5											.02														.02		5
25																	.08	.02							.10		25
Sums											.08			.05		.02	.19	.23	.13	.35	.05		.20		1.35		Sums
November 1936																											
						.08	.10																		.18		6
Gage not in operation from Nov. 8, 1936 to April 1, 1937																											
SUMS																											SUMS
MEANS																											MEANS

Form SCS-276

Project No. SCS-IA-1
Shenandoah, Iowa.

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

STATION No. 4, January to June 1937. DATA Hourly precipitation from recording gage No. 4.

Turkio River Watershed

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
												January 1937															
7									.01	.06	.07	.07	.06	.06	.04	.06	.05	.02		.02	.01	.01	.08	.13	.75		7
8	.21	.14	.20	.20	.05		.01	.02																	.83		8
20									.01	.01	.02														.04		20
29			Snow started P.M. Jan. 29															.17							.17		29
Sums	.21	.14	.20	.20	.05		.01	.02	.02	.07	.09	.07	.06	.06	.04	.06	.05	.19		.02	.01	.01	.08	.13	1.79		Sums
												February 1937															
3			Snow started A.M. Jan. 3												.02										.02		3
19			Snow started P.M. Jan. 19												.37										.37		19
Sums															.39										.39		Sums
												March 1937															
3																			.01	.01	.01	.10	.09	.02	.24		3
4	.02																								.02		4
19											.02	.06			.03	.01	.08	.14			.02		.02		.38		19
20	.01	.01	.02	.02	.01					.01	.09	.04		Snow started A.M. Jan. 20											.21		20
23															.14	.16	.05		.05	.14	.02				.56		23
24	.02													.05		.05	.10	.02							.24		24
Sums	.05	.01	.02	.02	.01					.01	.11	.10		.05	.17	.22	.23	.16	.06	.15	.05	.10	.11	.02	1.65		Sums
												April 1937															
7	.02	.03	.01	.06	.05	.13	.10	.04	.06	.06	.08	.04	.14	.08	.06	.08	.16	.18	.13	.03	.02		.02	.02	1.60		7
20		.01	.01		.02	.02	.24	.18	.06	.01		.01			.46	.02	.06			.03					1.13		20
23																			.24	.18					.42		23
24												.02	.02	.01	.02		.01			.02	.06	.04			.20		24
SUMS	.02	.04	.02	.06	.07	.15	.34	.22	.12	.07	.08	.07	.16	.09	.54	.10	.23	.18	.37	.26	.08	.04	.02	.02	3.35		SUMS
MEANS																											MEANS

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
												May 1937															
2												.02	.02	.12	.07	.01		.08	.12				.01		.45		2
3	.01						.04	.06	.02				.04	.06		.01							.01		.25		3
4																.12									.12		4
6																	1.26	.19							1.45		6
16													.03	.02											.05		16
19																					.01	.05			.06		19
20															.54	.03				.57	.04	.05			1.23		20
25												.09	.01			.04									.14		25
26	.02	.06	.28	.01																					.37		26
30													.12	.14											.30		30
Sums	.03	.06	.28	.01			.04	.06	.02			.11	.22	.34	.61	.21	.26	.27	.12	.57	.05	.10	.02		4.42		Sums
												June 1937															
2				.06	.03	.02																			.11		2
5		.08	.29	.04																					.41		5
8									.01	.01	.06	.01							.04	.01		.01			.15		8
9				.04	.01																				.05		9
13												1.03	.08	.21	.04										1.36		13
15						(Chart off drum - total rain, 1.10 inches)																					15
SUMS		.08	.29	.14	.04	.02			.01	.01	.06	1.04	.08	.21	.04				.04	.01		.01			2.08		SUMS
MEANS																											MEANS

Copied by: W.M.M.
Checked by: W.M.M.
Final check by: G.N.M. & E.S.

Form SCS-374

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

STATION No. 9 - January to July, 1937 DATA Hourly precipitation from recording gage No. 9

West Tarkio Creek Watershed.

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	DATE
Gage not in operation from Nov. 8, 1936 to April 1, 1937																											
April 1937																											
7	.02	.02	.02	.05	.05	.14	.16	.05	.10	.10	.05	.05	.15	.07	.05	.14	.09	.16	.06	.02			.04		1.59		7
20					.03	.09	.02	.03	.03				.04	.61	.05		.04								.94		20
23																			.20	.27					.47		23
28										.01	.02	.02	.02												.07		28
29												.02		.01	.01		.01								.05		29
Sums	.02	.02	.02	.05	.08	.23	.18	.08	.13	.11	.07	.09	.21	.69	.11	.14	.14	.16	.26	.29			.04		3.12		Sums
May 1937																											
2									.03		.01	.01	.03	.10	.08	.01	.06	.15			.02				.50		2
3							.08		.02	.01			.03	.06		.01									.21		3
16											.02	.03	.05												.10		16
20								.15										.02	.01	.01	.02	.02			.23		20
21	.23					.35	.10																		.68		21
25																						.02	.03		.05		25
26			.05																	.02	.02	.01		.09	.19		26
30																							.12		.12		30
Sums	.23		.05			.35	.18	.15	.05	.01	.03	.04	.11	.16	.08	.02	.06	.17	.01	.03	.06	.05	.15	.09	2.08		Sums
SUMS																											SUMS
MEANS																											MEANS

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	DATE
June 1937																											
1																	.40								.40		1
2			.11	.13	.04																				.28		2
5		.32	.10																						.42		5
8																	.05								.05		8
9											.02	.03													.05		9
12																								.72	.72		12
13		.08	.01				.01																		.10		13
15																	.07				.27	.18			.52		15
Sums		.40	.22	.13	.04		.01				.02	.03					.52				.27	.18		.72	2.54		Sums
July 1937																											
Record not complete for July 1 & 3. No record July 2																											
12	.02		.23	.15	.13		.01	.01																	.55		12
13	.05	.10	.06	.05	.02			.03	.02	.03	.02	.02									.04				.44		13
16	.02																								.02		16
18					.10		.04			.02	.02	.03	.01	.02					.48	.22	.20	.07			1.21		18
24						.07	.11	.02		.01															.21		24
29																			.03	.69	.36	.1[illegible]	[illegible]		1.36		29
Sums	.09	.10	.29	.20	.25	.07	.16	.06	.02	.06	.04	.05	.01	.02					.51	.91	.74	.18	.0[illegible]		3.79		Sums
SUMS																											SUMS
MEANS																											MEANS

Form SCS-376

Project No. SCS-IA-1
Shenandoah, Iowa

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

STATION No. 4, July to October, 1937 DATA Hourly precipitation from recording gage No. 4.

Tarkio River Watershed

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
													July 1937														
12	.59	.32	.21	.20	.04	.02		.01												.10				.01	1.50		12
13	.03	.15	.06		.07	.02		.03														.35			.71		13
14		.33																							.33		14
19							1.04	.32	.22	.13															1.71		19
24							.12	.04		.02	.01														.19		24
29																				.06	1.28	.07	.15	.04	1.60		29
Sums	.62	.80	.27	.20	.11	.04	1.16	.40	.22	.15	.01									.16	1.28	.42	.15	.05	6.04		Sums
													August 1937														
7																					.02	.01		.03	.06		7
8	.03	.02																							.05		8
19		.17	.27	.10																					.54		19
20							(Chart for Aug. 19-20, missing)																				20
Sums	.03	.19	.27	.10																	.02	.01		.03	.65		Sums
													September 1937														
23													.04	.02	.07	.17	.01	.01							.32		23
24		.06	.18			.02																			.26		24
28	.03	.16																							.19		28
Sums	.03	.22	.18			.02							.04	.02	.07	.17	.01	.01							.77		Sums
SUMS																											SUMS
MEANS																											MEANS

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
													October 1937														
8															.02	.02	.01	.05	.02	.05	.01	.03	.03		.24		8
9	.01	.01																							.02		9
15																								.04	.04		15
16	.05	.01	.01					.01		.02	.01	.02	.01				.01	.01	.07	.04	.06	.16	.10	.03	.62		16
17	.01			.04		.01	.01	.01																	.08		17
18																			.02	.09	.05	.03			.19		18
Sums	.07	.02	.01	.04		.01	.01	.02		.02	.01	.02	.01		.02	.02	.02	.06	.11	.18	.12	.22	.13	.07	1.19		Sums
SUMS																											SUMS
MEANS																											MEANS

Copied by: W.M.M.
Checked by: W.M.M.
Final check by: G.N.M. & E.S.

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

STATION No. 9 - August to October 1937. DATA Hourly precipitation from recording gage No. 9

West Tarkio Creek Watershed

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	DATE
August 1937																											
2					.04	.07	.03																		.14		2
7																				.03	.10			.05	.18		7
19		.07	.57	.33																					.97		19
20	.06	.18	.33	.04						.01	.02														.64		20
	No record from August 21 to August 24, 1947.																										
Sums	.06	.25	.90	.37	.04	.07	.03			.01	.02									.03	.10			.05	1.93		Sums
September 1937																											
4				.05																					.05		4
	No record from September 6-13																										
23																		.10	.02	.01		.01			.14		23
24				.24																					.24		24
Sums				.29														.10	.02	.01		.01			.43		Sums
SUMS																											SUMS
MEANS																											MEANS

Note: Clock stopped at 4:00 A.M. September 26. Gage showed 0.37 in. precipitation from that time until 9 A.M., Oct. 3, when a new chart was installed. Precipitation probably occurred September 27 and 28.

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MDT	SUM	MEAN	DATE
October 1937																											
3	.37 Precipitation from 4:00 A.M. Sept. 26 to 9:00 A.M. Oct. 3 Storm probably occurred on Sept. 27 and 28.																								.37		3
* 8																											8*
* 9																											9*
*10							*.37																		.37		10*
11								.04					.04												.08		11
Sums	* Clock stopped at 2:30 A.M. Oct. 8. Gage showed 0.37 inch from that time until Oct. 10 at 7:00 A.M. when the chart was changed. Storm probably occurred on Oct. 8 and 9.																								.82		Sums
Recorder not operating Oct. 24, 1937 - Feb. 2, 1938.																											
SUMS																											SUMS
MEANS																											MEANS

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

STATION No. 4, November 1937 DATA Hourly precipitation from recording gage No. 4.

Tarkio River Watershed

November 1937

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
1																											1
2																											2
3																											3
4																											4
5																											5
6																											6
7																								.18	.18		7
8																											8
9																											9
10																											10
11																											11
12																											12
13																											13
14																											14
15																											15
16																											16
17																											17
18																											18
19																											19
20																											20
21																											21
22																											22
23																											23
24																											24
25																											25
26																											26
27				.05	.05	.03	.05		.02	.01	(Rain & Snow)														.21		27
28																											28
29																											29
30																											30
SUMS				.05	.05	.03	.05		.02	.01														.18	.39		SUMS
MEANS																											MEANS

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
SUMS																											SUMS
MEANS																											MEANS

Copied by: W.M.M.
Checked by: W.M.M.
Final check by: O.N.M. & E.S.

Form SCS-374

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates November 1, 3, 4, & 6, 1937 DATA Hourly precipitation from recording gages.

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
	Stations listed in each Watershed by location North to South.																										
	West Turkio Creek Watershed																										
	November 1																										
22							.02	.12	.06	.01															.21		22
20					.03				.07																.10		20
16																											16
9				Recorder not operating Oct. 24 to Feb. 2, 1938																							9
21																											21
23		.01		.03		.06																			.10		23
Sums		.01		.03	.03	.06	.02	.12	.13	.01															.41		Sums
	November 3																										
22																											22
20																			.01	.01		.01		.01	.04		20
16																											16
9																											9
21																											21
23																											23
SUMS																			.01	.01		.01		.01	.04		SUMS
MEANS																											MEANS

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
	November 4																										
22																											22
20				.01		.01		.01		.01		.01		.01							.01		.01		.08		20
16														.02	.02										.04		16
9							Recorder not operating Oct. 24, to Feb. 2, 1938																				9
21																											21
23																											23
Sums				.01		.01		.01		.01		.01		.03	.02						.01		.01		.12		Sums
	November 6																										
22																											22
20																											20
16																											16
9																											9
21																											21
23																				.02	.01		.01		.04		23
SUMS																				.02	.01		.01		.04		SUMS
MEANS																											MEANS

Copied by: W.M.M.
Checked by: W.M.M.
Final check by: G.N.M. & E.S.

Form SCS-376

CLIMATIC DATA SHEET

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates ~~STATION~~ November 7, 8, 10, & 11, 1937 DATA Hourly precipitation from recording gages.

~~DATE~~ Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	~~DATE~~ Sta. No.
	Stations listed in each Watershed by location, North to South																										
	November 7												West Tarkio Creed Watershed														
22																							.12	.20	.32		22
20																								.15	.15		20
16																								.03	.03		16
9						Recorder not operating Oct. 24 to Feb. 2, 1938																					9
21																											21
23	.01		.01																				.08	.01	.11		23
Sums	.01		.01																				.20	.39	.61		Sums
	November 8																										
22																											22
20	.03																								.03		20
16	.39																								.39		16
9																											9
21						Clock stopped for period Nov. 3 to Nov. 9 - Total prec. = .38																			.38		21
23																											23
SUMS	.42																								.80		SUMS
MEANS																											MEANS

~~DATE~~ Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	~~DATE~~ Sta. No.
	November 10																										
22																											22
20						.01	.01									.01	.02	.01	.02	.02	.01		.01		.12		20
16																											16
9						Recorder not operating Oct. 24 to Feb. 2, 1938																					9
21																											21
23																											23
Sums						.01	.01									.01	.02	.01	.02	.02	.01		.01		.12		Sums
	November 11																										
22																											22
20		.01	.02																						.03		20
16																											16
9																											9
21																											21
23																											23
SUMS		.01	.02																						.03		SUMS
MEANS																											MEANS

Copied by W.M.M.
Checked by W.M.M.
Final check by G.N.M. & E.S.

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates ~~Station~~ November 22, 26, 27, & 28, 1937 DATA Hourly precipitation from recording gages.

Stations listed in each watershed by location North to South.

West Tarkio Creek Watershed

Sta. No. \ DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
November 22																											
22																											22
20																											20
16														.02	.02	.02	.01	.01							.08		16
9	Recorder not operating Oct. 24 to Feb. 2, 1938																										9
21																											21
23																											23
Sums														.02	.02	.02	.01	.01							.08		Sums
November 26																											
22																											22
20																											20
16																											16
9																											9
21																											21
23																		.02							.02		23
SUMS																		.02							.02		SUMS
MEANS																											MEANS

Sta. No. \ DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
November 27																											
22				.02																					.02		22
20			.03		.01																				.04		20
16			.01	.01	.02																			.05	.09		16
9	Recorder not operating Oct. 24 to Feb. 2, 1938																										9
21				.02				.08																	.10		21
23			.04	.03	.01																				.08		23
Sums			.08	.08	.04			.08																.05	.33		Sums
November 28																											
22										.02	.02		.12	.04											.20		22
20												.05	.03												.08		20
16	.04																								.04		16
9																											9
21																											21
23											.02	.03	.02												.07		23
SUMS	.04									.02	.02	.08	.17	.04											.39		SUMS
MEANS																											MEANS

Form SCS-376

Project No. SCS-IA-1
Shenandoah, Iowa

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

STATION No. 4, December 1937 DATA Hourly precipitation from recording gage No. 4.

Period over watershed

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
												December 1937															
1			Snow started P.M. Nov. 30										.06												.06		1
2																											2
3			"		"		A.M. Dec. 3						.01			Snow stopped P.M. Dec. 3									.01		3
4																											4
5																											5
6																											6
7																											7
8																											8
9																											9
10																											10
11																											11
12			"		"		A.M. Dec. 12																				12
13																											13
14													.13			Snow stopped P.M. Dec. 14									.13		14
15																											15
16																											16
17																											17
18			Snow & rain started P.M. Dec. 18																								18
19																											19
20													.06			Snow stopped A.M. Dec. 20									.06		20
21																											21
22																											22
23																								.01	.01		23
24	.01																								.01		24
25																											25
26																											26
27																			.02						.02		27
28																											28
29																											29
30																											30
SUMS	.01												.26						.02					.01	.30		SUMS
MEANS																											MEANS

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
SUMS																											SUMS
MEANS																											MEANS

Copied by: [illegible]
Checked by: [illegible]
Final check by: G.V.M. & E.S.

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa
Dates

STATION December 14,15,16 & 17, 1937 DATA Hourly precipitation from recording gages.

Stations listed in each watershed by locations North to South

West Tarkio Creek Watershed

Sta. No. \ DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
December 14																											
22																											22
20																											20
16																											16
9							Recorder not operating Oct. 24 to Feb. 2, 1938																				9
21																.20									.20		21
23				.01		.02																			.03		23
Sums				.01		.02										.20									.23		Sums
December 15																											
22															.02										.02		22
20														.04	.03										.07		20
16		.02	.04	.03																					.09		16
9																											9
21																											21
23													.05	.06	.02	.02									.15		23
SUMS		.02	.04	.03									.05	.10	.07	.02									.33		SUMS
MEANS																											MEANS

Sta. No. \ DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
December 16																											
22												.01	.06												.07		22
20												.02	.04												.06		20
16																											16
9							Recorder not operating Oct. 24 to Feb. 2, 1938																				9
21																											21
23											.05														.05		23
Sums											.05	.03	.10												.18		Sums
December 17, 1937																											
22											.01														.01		22
20	.01		.01										.01	.01	.02	.02	.01								.08		20
16																			.04	.01					.05		16
9																											9
21																											21
23																											23
SUMS	.01		.01								.01		.01	.01	.02	.02	.01		.04	.01					.15		SUMS
MEANS																											MEANS

Copied by: W.N.H.
Checked by: W.N.H.
Final check by: C.N.H. & E.S.

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-W-1
Shenandoah, Iowa

Dates
~~STATION~~ December 18, 19, 20, & 21, 1937 DATA Hourly precipitation from recording gages.

Stations listed in each watershed by
Location North to South.

West Tarkio Creek Watershed

~~DATE~~ Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE Sta. No.
December 18																											
22																				.03	.02				.05		22
20																		.02	.02		.02				.06		20
16				.04			.01		.01		.01									.01	.01				.09		16
9	Recorder not operating Oct. 24 to Feb. 2, 1938																										9
21																											21
23																		.02		.04		.01			.07		23
Sums				.04			.01		.01		.01							.04	.02	.08	.05	.01			.27		Sums
December 19																											
22																											22
20																											20
16					.01	.01											.02								.04		16
9																											9
*21																											21
23																											23
SUMS					.01	.01											.02								.04		SUMS
MEANS																											MEANS

~~DATE~~ Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE Sta. No.
December 20																											
22																											22
20																											20
16									.01														.06		.07		16
9	Recorder not operating Oct. 24 to Feb. 2, 1938																										9
21																											21
23																											23
Sums									.01														.06		.07		Sums
December 21																											
22																											22
20																											20
16																											16
9																											9
21				.05																					.05		21
23																											23
SUMS				.05																					.05		SUMS
MEANS																											MEANS

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Final check by [illegible]

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. [illegible]
Shenandoah, Iowa
Month December 22, 23, 25, 26, & 28, 1937 DATA Daily precipitation from recording gages.

DATE / Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	M-N-T	SUM	MEAN	Sta. No.
	Stations listed in each tabulation by location North to South.																										
	Dec. 22																										
22																											22
20																											20
16																											16
9	Recorder not operating Oct. 24 to Feb. 2, 1938																										9
21																											21
23																						.07			.07		23
Sums																						.07			.07		Sums
	December 24																										
22																											22
20																											20
16							.02																		.02		16
9																											9
21																											21
23																											23
Sums							.02																		.02		Sums
Means																											Means

DATE / Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	M-N-T	SUM	MEAN	Sta. No.
	December 25																										
22														.02											.02		22
20																											20
16																											16
9	Recorder not operating Oct. 24 to Feb. 2, 1938																										9
21																											21
23																											23
Sums														.02											.02		Sums
	December 26																										
22									.01		.01														.02		22
20																				.03					.03		20
16																											16
9																											9
21																											21
23																											23
Sums									.01		.01									.03					.05		Sums
	December 28																										
22																											22
20																											20
16										.02															.02		16
9																											9
21																											21
23																											23
Sums																											Sums
Means																											Means

Form SCS—376

Project No. SCS-IA-1
Shenandoah, Iowa.

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

STATION No. 4, January 1938. DATA Hourly precipitation from recording gage No. 4.

Tarkio River Watershed

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
												January 1938															
1																											1
2																											2
3																											3
4																											4
5																											5
6																											6
7																											7
8																											8
9																											9
10																											10
11																											11
12																											12
13																											13
14																											14
15																											15
16																											16
17																											17
18				.08	Snow started 9:15 AM 15th Stopped 3:40 PM 15th																				.08		18
19																											19
20				.06	Snow started 1:00 AM 20th Stopped 2:10 AM 20th																				.06		20
21																											21
22																											22
23				.01	Snow started 3:00 PM 23rd Stopped 5:55 PM 23rd																				.01		23
24																											24
25																											25
26																											26
27																											27
28																											28
29				.02	Snow started 9:00PM 29th Stopped 11:00 PM 29th																				.02		29
30																											30
31																											31
SUMS				.17																					.17		SUMS
MEANS																											MEANS

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
SUMS																											SUMS
MEANS																											MEANS

Checked by: W.M.M.
Final check by: E.S. & G.N.M.

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates January 19, 20, 22, 23, & 25, 1938 DATA Hourly precipitation from recording gages

West Tarkio Creek Watershed

Stations listed in each watershed by location North to South

Date / Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Date / Sta. No.
January 19, 1938																											
22														.02	.02										.04		22
20															.01	.01									.02		20
16														.03	.02										.05		16
9	Recorder not operating Oct. 24, 1937 to Feb. 2, 1938																										9
21																											21
23												.01	.04					.01						.01	.07		23
Sums												.01	.04	.05	.05	.01		.01						.01	.18		Sums
January 20, 1938																											
22										.10															.10		22
20										.02	.11														.13		20
16											.06	.03													.09		16
9	Recorder not operating Oct. 24, 1937 to Feb. 2, 1938																										9
21											.02	.04	.02												.08		21
23											.02	.08													.10		23
Sums										.12	.21	.15	.02												.50		Sums
January 22, 1938																											
22											.01														.01		22
20																											20
16																											16
9	Recorder not operating Oct. 24, 1937 to Feb. 2, 1938																										9
21																											21
23									.01																.01		
SUMS									.01		.01														.02		SUMS
MEANS																											MEANS

Date / Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Date / Sta. No.
January 23, 1938																											
22																											22
20																											20
16																											16
9	Recorder not operating Oct. 24, 1937, to Feb. 2, 1938.																										9
21																											21
23								.01																	.01		23
Sums								.01																	.01		Sums
January 25, 1938																											
22																											22
20																											20
16																											16
9	Recorder not operating Oct. 24, 1937, to Feb. 2, 1938.																										9
21			.01	.02			.02		.02																.07		21
23																											23
Sums			.01	.02			.02		.02																.07		Sums
SUMS																											SUMS
MEANS																											MEANS

Form SCS—376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET
Sheet 3 of 41 Sheets

Project No. SCS-IA-1
Shenandoah, Iowa.

STATION No. 4, February 1938. DATA Hourly precipitation from recording gage No. 4

Tarkio River Watershed

February 1938

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
1																											1
2																											2
3																											3
4																											4
5																											5
6																											6
7																											7
8																											8
9																											9
10																											10
11																											11
12																											12
13																											13
14																											14
15			.08	Snow started 8:45 AM 15th Stopped11:45 AM 15th																					.08		15
16			.38	Snow started 8:25 PM 15th Stopped 5:00 PM 16th																					.38		16
17																											17
18																											18
19																											19
20																											20
21			.14	Snow started 8:00 PM 21st Stopped 1:00 AM 22nd																					.14		21
22																											22
23																											23
24																											24
25																											25
26																											26
27																											27
28																											28
SUMS			.60																						.60		SUMS
MEANS																											MEANS

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
SUMS																											SUMS
MEANS																											MEANS

21
23

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Checked by: W.M.M.
Final check by: E.S. & C.N.M.

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates February 2, 15, 16, 17, 19, & 20, 1938 DATA Hourly precipitation from recording gages.

West Tarkio Creek Watershed

Stations listed in each watershed by location North to South

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
February 2, 1938																											
22														.01											.01		22
20																											20
16																											16
9																											9
21																											21
23																											23
Sums														.01											.01		Sums
February 15, 1938																											
22																											22
20																						.04	.04	.01	.09		20
16																						.03	.02	.02	.07		16
9																											9
21																					.03	.02	.03	.02	.10		21
23																					.05	.09	.03	.03	.20		23
Sums																					.08	.18	.12	.08	.46		Sums
February 16, 1938																											
22																											22
20	.01	.01																							.02		20
16	.01	.01	.01																						.03		16
9																											9
21	.03																.03								.06		21
23	.03											.02	.01	.01		.03		.01							.11		23
SUMS	.08	.02	.01									.02	.01	.01		.03	.03	.01							.22		SUMS
MEANS																											MEANS

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
February 17, 1938																											
22																											22
20			.03			.01																			.04		20
16			.01			.02																			.03		16
9																											9
21		.01	.02			.01																			.04		21
23		.02																							[illegible]		23
Sums		.03	.06			.04																			.13		Sums
February 19, 1938																											
22													.08	.05	.07		.01								.21		22
20																											20
16															.01										.01		16
9																											9
21																											21
23																											23
Sums													.08	.05	.08		.01								.22		Sums
February 20, 1938																											
22																									.04		22
20																											20
16																											16
9																											9
21																											21
23																											23
SUMS																									.04		SUMS
MEANS																											MEANS

Copied by: W.M.M.
Checked by: W.M.M.
Final check by E.S. & G.N.M.

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates ~~STATION~~ February 21, 22, 24, & 25, 1938 DATA Hourly precipitation from recording gages.

West Tarkio Creek Watershed

Stations listed in each watershed by location North to South.

Sta. No. \ DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE \ Sta. No.
February 21, 1938																											
22																											22
20																							.02		.02		20
16																				.02	.01	.01	.01	.02	.07		16
9																											9
21																						.03	.02		.05		21
23																						.02	.02	.01	.05		23
Sums																				.02	.01	.06	.07	.03	.19		Sums
February 22, 1938																											
22										.01	.02	.05													.08		22
20	.03				.01		.01																		.05		20
16	.01	.01																							.02		16
9																											9
21		.01		.02		.01																			.04		21
23	.01		.01	.01	.01		.01																		.05		23
SUMS	.05	.02	.01	.03	.02	.01	.02			.01	.02	.05													.24		SUMS
MEANS																											MEANS

Sta. No. \ DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE \ Sta. No.
February 24, 1938																											
22																											22
20																	.01		.01						.02		20
16																											16
9																											9
21																											21
23																											23
Sums																	.01		.01						.02		Sums
February 25, 1938																											
22																											22
20				.01		.01						.01													.03		20
16																											16
9														.07											.07		9
21																											21
23																											23
SUMS				.01		.01						.01		.07											.10		SUMS
MEANS																											MEANS

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

STATION No. 4, March 1938. DATA Hourly precipitation from recording gage No. 4

Tarkio River Watershed

March 1938

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
1																											1
2																											2
3																											3
4																											4
5																											5
6																											6
7																											7
8																											8
9			.02	.03	.05	.01	.02	.06	.07	.07	.06	.07	.05	.04	.02	.02	.02								.61		9
10																											10
11																											11
12																											12
13																											13
14																											14
15																											15
16																											16
17																											17
18																.01									.01		18
19																											19
20																											20
21																											21
22																											22
23																											23
24																											24
25																											25
26																											26
27																											27
28													.03		.08	.03									.14		28
29																											29
30					.05	.01	.07	.01				.01	.01												.16		30
31																											31
SUMS			.02	.03	.10	.02	.09	.07	.07	.07	.06	.08	.09	.04	.10	.06	.02								.92		SUMS
MEANS																											MEANS

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
SUMS																											SUMS
MEANS																											MEANS

Copied by: W.M.M.
Checked by: W.S.M.
Final check by: E.S. & G.N.M.

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS -IA-1
Shenandoah, Iowa.

Dates

STATION March 21, 22, 23, 28, 29, & 30, 1938 DATA Hourly precipitation from recording gages

West Tarkio Creek Watershed

Stations listed in each watershed by location North to South.

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
March 21, 1938																											
22																											22
20																											20
16																											16
9																											9
21																											21
23																				.01					.01		23
Sums																				.01					.01		Sums
March 22, 1938																											
22		.03	.01																						.04		22
20																							.01	.01	.02		20
16																								.03	.03		16
9																											9
21																											21
23																				.02					.02		23
Sums		.03	.01																	.02			.01	.04	.11		Sums
March 23, 1938																											
22																											22
20																											20
16																											16
9																											9
21																											21
23																								.02	.02		23
SUMS																								.02	.02		SUMS
MEANS																											MEANS

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
March 28, 1938																											
22													.01	.01	.04	.02					.02				.10		22
20													.04	.01	.05	.04			.06				.02		.22		20
16													.01	.01	.02	.06					.01				.11		16
9																											9
21												.03	.03	.03	.06	.05	.01	.02	.01	.01	.03	.01		.01	.30		21
23												.05	.01	.10				.02	.02	.03	.01	.01			.25		23
Sums												.08	.10	.16	.17	.17	.01	.04	.09	.04	.07	.02	.02	.01	.98		Sums
March 29, 1938																											
22																											22
20																											20
16																											16
9									.01	.01	.03	.02	.01												.08		9
21																											21
23							.01																		.01		23
Sums							.01		.01	.01	.03	.02	.01												.09		Sums
March 30, 1938																											
22					.02			.13			.04	.02													.23		22
20					.08		.12																		.28		20
16					.02		.07	.01					.11												.22		16
9									.02	.03	.02	.02	.02	.01											.16		9
21					.02	.13	.01																		.18		21
23				.04	.01	.05																			.10		23
SUMS																								1.12			SUMS
MEANS																											MEANS

Form SCS—376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

STATION No. 4, April 1938. DATA Hourly precipitation from recording gage No. 4.

Tarkio River Watershed

April 1938

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
1																											1
2																											2
3																											3
4																											4
5															.19	.05	.01		.01	.01	.16		.03	.04	.49		5
6		.01			.15	.11	.07		.10	.01				.02	.01						.01	.02			.53		6
7			.02	Snow started 2:30 AM 7th Stopped 6:00 AM 7th																					.02		7
8																											8
9																											9
10																											10
11																											11
12																											12
13																											13
14																											14
15	.04		.14	.03	.04										.09			.41	.07	.13	.06				1.15		15
16	.07			.06	.01	.02				.23															.39		16
17																			.05	.05					.10		17
18																											18
19																											19
20																											20
21									.01	.03															.04		21
22																											22
23																											23
24																							.01		.01		24
25																											25
26																											26
27		.02		.02	.05								.12												.21		27
28																											28
29																											29
30																											30
SUMS	.11	.17	.16	.11	.25	.13	.07		.11	.27			.12	.04	.29	.05	.01	.41	.13	.19	.23	.02	.03	.04	2.94		SUMS
MEANS																											MEANS

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
SUMS																											SUMS
MEANS																											MEANS

Copied by: W.M.M.
Checked by: W.M.M. & E.S.
Final check by: G.N.M. & E.S.

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa

Dates
STATION April 5, 6, 8, & 14, 1938 DATA Hourly precipitation from recording gages.

West Tarkio Creek Watershed

Stations listed in each watershed by location North to South

Sta. No. \ DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE Sta. No.
April 5, 1938																											
22															.03	.11	.07		.01	.08		.04	.02	.04	.40		22
20															.10	.12	.01			.02		.01	.04	.04	.34		20
16															.15	.03	.02	.01		.04		.03	.02	.08	.38		16
9											.02	.01	.02	.15	.06		.01			.18		.03			.48		9
21														.04	.20	.04			.01					.05	.34		21
23														.14	.15	.01					.02		.04		.36		23
Sums											.02	.01	.02	.33	.69	.31	.11	.01	.02	.32	.02	.11	.12	.21	2.30		Sums
April 6, 1938																											
22	.14	.01	.01	.01	.17	.10	.10	.05			.01														.60		22
20		.02		.17	.14	.21	.03			.02															.59		20
16			.02	.02	.05	.13		.02	.08	.01					.02										.35		16
9		.01		.07	.10	.14			.20					.09											.61		9
21	.05			.03	.07	.04	.03		.12						.08										.42		21
23				.01	.10	.04	.02	.17		.02				.05			.01								.42		23
SUMS	.19	.04	.03	.31	.63	.66	.18	.24	.40	.05	.01			.14	.10		.01								2.99		SUMS
MEANS																											MEANS

Sta. No. \ DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE Sta. No.
April 8, 1938																											
22												.10	.10	.10											.30		22
20											.03	.05													.08		20
16																											16
9																											9
21																											21
23																											23
Sums											.03	.15	.10	.10											.38		Sums
April 14, 1938																											
22																											22
20																											20
16																											16
9																											9
21																											21
23																								.08	.08		23
SUMS																											SUMS
MEANS																											MEANS

Form SCS—376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

STATION No. 4, April 1938. DATA Hourly precipitation from recording gage No. 4.

Tarkio River Watershed

April 1938

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
1																											1
2																											2
3																											3
4																											4
5															.19	.05	.01		.01	.01	.16		.02	.04	.49		5
6		.01			.15	.11	.07		.10	.01				.04	.01						.01	.02			.55		6
7			.02	Snow started 2:30 AM 7th Stopped 6:00 AM 7th																					.02		7
8																											8
9																											9
10																											10
11																											11
12																											12
13																											13
14																											14
15	.04	[illegible]	.14	.03	.04										.09			.41	.07	.13	.06				1.15		15
16	.07			.06	.01	.02				.23															.39		16
17																			.05	.05					.10		17
18																											18
19																											19
20																											20
21									.01	.03															.04		21
22																											22
23																											23
24																							.01		.01		24
25																											25
26																											26
27		.02		.02	.05								.12												.21		27
28																											28
29																											29
30																											30
SUMS	.11	.17	.16	.11	.25	.13	.07		.11	.27			.12	.04	.29	.05	.01	.41	.13	.19	.23	.02	.03	.04	2.94		SUMS
MEANS																											MEANS

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
SUMS																											SUMS
MEANS																											MEANS

Copied by: W.M.M.
Checked by: W.M.M. & E.S.
Final check by: G.N.M. & E.S.

Form SCS-376

CLIMATIC DATA SHEET

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Project No. SCS-IA-1
Shenandoah, Iowa

Dates / STATION April 5, 6, 8, & 14, 1938 DATA Hourly precipitation from recording gages.

West Tarkio Creek Watershed

Stations listed in each watershed by location North to South

Sta. No. \ DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
April 5, 1938																											
22															.03	.11	.07		.01	.08		.04	.02	.04	.40		22
20															.10	.12	.01			.02		.01	.04	.04	.34		20
16															.15	.03	.02	.01		.04		.03	.02	.03	.38		16
9											.02	.01	.02	.15	.06		.01			.18		.03			.48		9
21														.04	.20	.04			.01					.05	.34		21
23														.14	.15	.02					.02		.04		.36		23
Sums											.02	.01	.02	.33	.69	.31	.11	.01	.02	.32	.02	.11	.12	.21	2.30		Sums
April 6, 1938																											
22	.14	.01	.01	.01	.17	.10	.10	.05			.01														.60		22
20		.02		.17	.14	.21	.03			.02															.59		20
16			.02	.03	.05	.13		.02	.02	.01					.02										.35		16
9		.01		.07	.10	.14			.02					.09											.61		9
21	.05			.03	.07	.04	.03		.12						.08										.42		21
23				.01	.10	.04	.02	.17		.02				.05			.01								.42		23
SUMS	.19	.04	.03	.31	.63	.66	.18	.24	.40	.05	.01			.14	.10		.01								2.99		SUMS
MEANS																											MEANS

Sta. No. \ DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
April 8, 1938																											
22												.10	.10	.10											.30		22
20											.03	.05													.08		20
16																											16
9																											9
21																											21
23																											23
Sums											.03	.15	.10	.10											.38		Sums
April 14, 1938																											
22																											22
20																											20
16																											16
9																											9
21																											21
23																								.08	.08		23
SUMS																								.08	.08		SUMS
MEANS																											MEANS

Copied by: W.M.M.
Checked by: W.M.M. & E.S.
Final check by: G.M.M. & E.S.

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates ~~STATION~~ April 15, 16, 17, 20, 21, & 22, 1938 DATA Hourly precipitation from recording gages

West Tarkio Creek Watershed

Stations listed in each watershed by location North to South

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
April 15, 1938																											
22			.22	.04		.08				.02						.02	.14	.14	.30	.22	.02	.06	.05	.03	1.34		22
20		.20	.18		.07										.32		.02	.21	.24	.10	.20				1.54		20
16		.17	.22			.04												.20	.35	.05	.14				1.17		16
9	.20	.20														.10	.12	.20	.08						.90		9
21	.10	.20	.10	.02													.08	.25	.11						.86		21
23	.12	.18	.02													.05	.16	.28	.03	.02				.02	.88		23
Sums	.42	.95	.74	.06	.07	.12				.02					.32	.17	.52	1.28	1.11	.39	.36	.06	.05	.05	6.69		Sums
April 16, 1938																											
22		.03		.02	.01	.04	.03	.02	.01	.01		.08	.04												.29		22
20	.01		.02		.18			.02		.03	.05								.01						.32		20
16	.03		.02		.06					.20									.03						.34		16
9					.50	.30				.15															.95		9
21			.05	.10	.26		.03			.10															.54		21
23			.02	.10			.03		.04	.04				.01											.24		23
Sums	.04	.03	.11	.22	1.01	.34	.09	.04	.05	.53	.05	.08	.04	.01					.04						2.68		Sums
April 17, 1938																											
22																											22
20																											20
16																		.28	.02						.30		16
9																		.14	.04						.18		9
21																			.04	.03					.07		21
23																											23
SUMS																		.42	.10	.03					.55		SUMS
MEANS																											MEANS

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
April 20, 1938																											
22																											22
20																											20
16																											16
9										.01	.01	.01	.01	.01	.01										.06		9
21																											21
23																											23
Sums										.01	.01	.01	.01	.01	.01										.06		Sums
April 21, 1938																											
22									.04																.04		22
20									.02																.02		20
16									.04																.04		16
9								.01	.04																.05		9
21																											21
23																											23
Sums								.01	.14																.15		Sums
April 22, 1938																											
22																											22
20																					.02	.01	.01	.02	.06		20
16																											16
9									.01			.01			.01										.03		9
21																											21
23																											23
SUMS									.01			.01			.01						.02	.01	.01	.02	.09		SUMS
MEANS																											MEANS

Copied by: W.H.V.
Checked by: W.M.M. & E.S.
Final check by: D.W.M. & E.S.

Form SCS-376

CLIMATIC DATA SHEET

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates ~~STATION~~ April 23, 24, 26, 27, 29, & 30, 1938 DATA Hourly precipitation from recording gages

West Tarkio Creek Watershed

Stations listed in each watershed by location North to South

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
April 23, 1938																											
22																											22
20	.02																								.02		20
16																											16
9																						.04			.04		9
21																							.08		.08		21
23																						.05			.05		23
Sums	.02																					.09	.08		.19		Sums
April 24, 1938																											
22																											22
20																											20
16																											16
9																											9
21						.02																			.02		21
23						.01																			.01		23
Sums						.03																			.03		Sums
April 26, 1938																											
22																											22
20																											20
16																											16
9																								.03	.03		9
21																											21
23																								.01	.01		23
SUMS																								.04	.04		SUMS
MEANS																											MEANS

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
April 27, 1938																											
22	.07				.02								.24							.02					.35		22
20					.02								.50												.52		20
16					.05								.25									.05			.35		16
9			.02	.06								.09													.17		9
21		.02			.08																				.10		21
23		.03			.05																				.08		23
Sums	.07	.05	.02	.06	.22							.09	.99							.02		.05			1.57		Sums
April 29, 1938																											
22																											22
20																											20
16																											16
9																		.08							.08		9
21																											21
23																											23
Sums																		.08							.08		Sums
April 30, 1938																											
22																											22
20																											20
16																											16
9															.01										.01		9
21																											21
23																											23
SUMS															.01										.01		SUMS
MEANS																											MEANS

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

STATION No. 4, May 1938. DATA Hourly precipitation from recording gage, No. 4.

Tarkio River Watershed

May 1938

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
1																											1
2				.01																					.01		2
3											.05												.05	.10	.20		3
4	.19	.17	.06	.07	.05	.19	.09		.09	.06	.13	.14	.52	.02					.17	.01					2.01		4
5																											5
6																			.02	.01	.02	.01	.10	.07	.23		6
7	.03	.40	.05		.01	.01		.01			.01	.02	.02		.01	.02									.59		7
8																						.03			.03		8
9																											9
10																											10
11																											11
12				.04																					.04		12
13					.16	.02											.03								.21		13
14																											14
15																											15
16													.03		.05										.08		16
17		.11	.07	.06	.02	.23	.02				.01	.03													.55		17
18																											18
19		.17	.03	.05	.02	.01	.01																		.29		19
20		.14				.02	.01																		.17		20
21							.03																		.03		21
22																											22
23																											23
24																											24
25																.02	.02								.04		25
26																											26
27										.03															.03		27
28																											28
29																											29
30																											30
31						.13	.15						.23	.35	.06										.92		31
SUMS	.22	.99	.21	.23	.26	.61	.31	.01	.09	.09	.25	.19	.80	.37	.12	.04	.05		.19	.02	.02	.04	.15	.17	5.43		SUMS
MEANS																											MEANS

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
SUMS																											SUMS
MEANS																											MEANS

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Final check by: [illegible]

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

STATION Dates May 1, 2, 3, 4, 5, [illegible], 1938 DATA Hourly precipitation from recording gages.

East Tarkio Creek Watershed

Stations listed in each watershed by location North to South.

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID T	SUM	MEAN	DATE
May 1, 1938																											
22																			.09						.09		22
20																			.06						.06		20
16																				.03					.03		16
9																			.03						.03		9
21																											21
23																			.02						.02		23
Sums																			.20	.03					.23		Sums
May 2, 1938																											
22					.12		.01																		.13		22
20					.18		.01																		.19		20
16					.08																				.08		16
9																											9
21																											21
23																											23
Sums					.38		.02																		.40		Sums
May 3, 1938																											
22											.23												.02	.16	.41		22
20										.38													.12	.12	.62		20
16																							.06	.13	.19		16
9										.03													.19	.11	.33		9
21										.04													.04	.22	.22		21
23									.03														.17	.10	.30		23
SUMS									.03	.45	.23												.60	.82	2.13		SUMS
MEANS																											MEANS

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID T	SUM	MEAN	DATE Sta. No.
May 4, 1938																											
22	.02	.25	.02	.22	.04	.03	.04	.20	[illegible]	.06	.02	.04	.02	.02	.03	.03	.78								1.54		22
20	.23	.13	.07	.01	.04	.16	.05	[illegible]	.35	[illegible]	.11	[illegible]	[illegible]	.03	.02										1.58		20
16	.17	.10	.10	.08	.02	.12	.04		.03	[illegible]	[illegible]	[illegible]	[illegible]		.04				.03						1.48		16
9	.20	.11	.12	.02	.09	.07		.05	[illegible]	[illegible]	[illegible]	[illegible]													1.60		9
21	.17	.12	.16	.03	.02	.12	.06		[illegible]	[illegible]	[illegible]	[illegible]							.01						1.56		21
23	.18	.15	.15	.06	.04	.19		.06	.03	[illegible]	.15	[illegible]	.11												1.70		23
Sums	.97	.86	.63	.23	.25	.66	.19	.31	.32	.52	.38	[illegible]	[illegible]	.05	.09	.03	.78		.04						9.56		Sums
May 5, 1938																											
22											.01														.01		22
20																											20
16																											16
9																											9
21																											21
23																											23
Sums											.01														.01		Sums
May 6, 1938																											
22																					.01	.02	.03	.06	.12		22
20																						.10			.10		20
16																						.04	.12	.04	.20		16
9																.02	.01					.04		.09	.16		9
21																.03			.02		.02	.01	.08	.11	.27		21
23																					.05			.05	.10		23
SUMS																.05	.01		.02		.08	.22	.23	.35	.95		SUMS
MEANS																											MEANS

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Checked by: W.M.M. & W.S.
Final check by: G.N.M. & E.S.

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates May 7, 8, 9, 11, 12, & 13, 1938 DATA Hourly precipitation from recording gages.

West Tarkio Creek Watershed

Stations listed in each watershed by location North to South

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
	May 7, 1938																										
22	.01	.11	.03	.03	.03	.03	.02	.02	.02	.38			.01	.01	.02				.01		.04			.01	.78		22
20	.10	.10	.25	.08																					.53		20
16	.07	.23	.19			.07	.01																		.57		16
9	.04	.55					.02	.03																	.64		9
21		.38					.03																		.41		21
23			.04			.05	.04	.11		.15				.05					.07		.02				.53		23
Sums	.22	1.37	.51	.11	.03	.15	.12	.16	.02	.53			.01	.06	.02				.08		.06			.01	3.46		Sums
	May [illegible], 1938																										
22												.05		.01						.02					.08		22
20																						.08			.08		20
16																				.01			.02		.03		16
9																						.07	.03	.03	.13		9
21																						.10		.10	.20		21
23	.05																					.10		.10	.25		23
Sums	.05											.05		.01						.03		.35	.05	.23	.77		Sums
	May 9, 1938																										
22																						.01			.01		22
20																			.02						.02		20
16																											16
9																											9
21	.03																								.03		21
23																											23
SUMS	.03																		.02			.01			.06		SUMS
MEANS																											MEANS

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
	May 11, 1938																										
22																											22
20																											20
16																											16
9																											9
21																											21
23																								.03	.03		23
Sums																								.03	.03		Sums
	May 12, 1938																										
22																											22
20																											20
16																											16
9	.02	.03	.02	.01																					.08		9
21		.02	.08	.04	.11	.13																			.38		21
23	.05	.06	.05	.10	.15	.05																			.46		23
Sums	.07	.11	.15	.15	.26	.18																			.92		Sums
	May 13, 1938																										
22																	.08		.08						.16		22
20														.01	.01	.01	.02	.22	.01						.28		20
16																		.25							.25		16
9																.12	.10								.22		9
21																		.17	.10						.27		21
23																	.16	.06							.22		23
SUMS														.01	.01	.13	.36	.70	.19						1.40		SUMS
MEANS																											MEANS

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Final check by: G.N.M. & E.S.

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates ~~STATION~~ May 16, 17, 19, & 20, 1938 DATA Hourly precipitation from recording gages

West Tarkio Creek Watershed

Stations listed in each watershed by location North to South

Sta. No. \ DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
May 16, 1938																											
22														.03	.01										.04		22
20														.09	.05										.14		20
16												.01		.06	.03										.10		16
9												.02													.02		9
21													.03		.05										.08		21
23												.01	.02	.01				.01				.02		.03	.10		23
Sums												.04	.05	.19	.14			.01				.02		.03	.48		Sums
May 17, 1938																											
22		.04	.02	.04	.02	.04	.06					.01													.23		22
20			.08	.03	.05	.04	.14																		.34		20
16		.06	.09	.04	.04	.10	.06					.02													.41		16
9	.09	.20	.10	.08	.02	.12					.02	.01													.64		9
21	.02	.20	.14	.06	.05	.08	.02					.05													.62		21
23	.17	.17	.08	.09	.03	.04	.10				.04														.72		23
SUMS	.28	.67	.51	.34	.21	.42	.38				.06	.09													2.96		SUMS
MEANS																											MEANS

Sta. No. \ DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
May 19, 1938																											
22			.12		.02			.03																	.17		22
20	.17	.01	.02																						.20		20
16	.16		.06	.02																					.24		16
9	.08	.14	.02	.07				.02																	.33		9
21		.10	.07	.03	.08		.02																		.30		21
23	.11	.08	.03	.09																.01		.01		.02	.35		23
Sums	.52	.33	.32	.21	.10		.02	.05												.01		.01		[illegible]	.9		Sums
May 20, 1938																											
22		.21						.02																	.23		22
20	.20		.01		.01	.01	.01												.06						.30		20
16	.11					.05																			.16		16
9		.03				.10																			.13		9
21		.04					.08																		.12		21
23		.06				.02		.01		.02		.02						.01	.01						.15		23
SUMS	.31	.34	.01		.01	.18	.09	.03		.02		.02						.01	.07						1.09		SUMS
MEANS																											MEANS

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Final check by: G.N.M. & E.S.

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.
~~Station~~ Dates May 21, 24, 25, 26, 30, & 31, 1938 DATA Hourly precipitation from recording gages

West Tarkio Creek Watershed

Stations listed in each watershed by location North to South.

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
May 21, 1938																											
22							.02																		.02		22
20																											20
16																											16
9						.02	.02																		.04		9
21							.01																		.01		21
23								.02											.02						.04		23
Sums						.02	.05	.02											.02						.11		Sums
May 24, 1938																											
22																											22
20																											20
16																											16
9															.02										.02		9
21																											21
23																											23
Sums															.02										.02		Sums
May 25, 1938																											
22																											22
20																	.02								.02		20
16															.05										.05		16
9				.01												.76									.77		9
21																	.02								.02		21
23																.25			.04						.29		23
SUMS				.01											.05	1.01	.04		.04						1.15		SUMS
MEANS																											MEANS

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
May 26, 1938																											
22															.15	.07	.02								.24		22
20															.04	.02									.06		20
16																								.01	.01		16
9																											9
21																							.10		.10		21
23																											23
Sums															.19	.09	.02						.10	.01	.41		Sums
May 30, 1938																											
22																											22
20																											20
16																											16
9																											9
21															.02		.03	.01	.04						.10		21
23																											23
Sums															.02		.03	.01	.04						.10		Sums
May 31, 1938																											
22						.04	.10						.02												.16		22
20					.02	.08	.17						.93			.02	.03	.02	.01						1.28		20
16						.04	.24	.01								.07									.36		16
9						.15	.32									.01	.01								.49		9
21					.02	.18	.61																		.81		21
23						.20	.56																		.76		23
SUMS					.04	.69	2.00	.01					.95			.10	.04	.02	.01						3.86		SUMS
MEANS																											MEANS

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

STATION No. 4, June 1938. DATA Hourly precipitation from recording gage No. 4.

Tarkio River Watershed

June 1938

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
1																											1
2																											2
3									.09	.04															.13		3
4																											4
5																											5
6		.01																							.01		6
7																											7
8																											8
9																											9
10					.29	.13	.02																	.17	.61		10
11	.12	.23	.18	.02																					.55		11
12																											12
13																											13
14				.12															.11	.15	.01	.03	.01		.43		14
15																											15
16										.14	.03	.04													.21		16
17																											17
18																											18
19																											19
20																											20
21																											21
22																											22
23																											23
24																								.03	.03		24
25											.02														.02		25
26																											26
27																											27
28																											28
29																											29
30																											30
SUMS	.12	.24	.18	.14	.29	.13	.02		.09	.18	.05	.04							.11	.15	.01	.03	.01	.20	1.99		SUMS
MEANS																											MEANS

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
SUMS																											SUMS
MEANS																											MEANS

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Final check by: G.N.M. & E.S.

Form SCS—376

CLIMATIC DATA SHEET

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Project No. SCS-IA-1
Shenandoah, Iowa.

Date June 1, 2, 3, 5, 6, & 7, 1938 DATA Hourly precipitation from recording gages.

West Tarkio Creek Watershed

Stations listed in each watershed by location North to South

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
June 1, 1938																											
22														.42	.03										.45		22
20														.11	.07		.02	.01							.21		20
16																											16
9														.03	.02										.05		9
21																.13		.01							.14		21
23																											23
Sums														.56	.12	.13	.02	.02							.85		Sums
June 2, 1938																											
22																											22
20																											20
16																											16
9												.01													.01		9
21																											21
23																											23
Sums												.01													.01		Sums
June 3, 1938																											
22																											22
20									.02																.02		20
16																											16
9								.05	.06																.11		9
21																											21
23									.09																.09		23
SUMS								.05	.17																.22		SUMS
MEANS																											MEANS

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
June 5, 1938																											
22																											22
20																											20
16																											16
9														.01											.01		9
21																											21
23																											23
Sums														.01											.01		Sums
June 6, 1938																											
22																											22
20																											20
16																											16
9	.02											.01													.03		9
21																				.03					.03		21
23												.02													.02		23
Sums	.02											.03								.03					.08		Sums
June 7, 1938																											
22																											22
20																											20
16																											16
9																											9
21				.02																					.02		21
23																											23
SUMS				.02																					.02		SUMS
MEANS																											MEANS

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates ~~STATION~~ June 8, 10, 11, 13, 14, & 15, 1938 DATA Hourly precipitation from recording gages

West Tarkio Creek Watershed

Stations listed in each watershed by location North to South

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
June 8, 1938																											
22																											22
20																											20
16																											16
9																											9
21																											21
23																				.04					.04		23
Sums																				.04					.04		Sums
June 10, 1938																											
22						.06	.03			.01		.02												.01	.13		22
20						.18	.02					.01							.01		.04	.02		.07	.35		20
16				.10		.10	.03																	.07	.30		16
9					.05	.02						.01											.12	.80	1.00		9
21																								.45	.45		21
23					.04																		1.00	.90	1.94		23
Sums				.10	.09	.36	.08			.01		.04							.01		.04	.02	1.12	2.30	4.17		Sums
June 11, 1938																											
22	.15	.58	.32	.32	.02						.02														1.41		22
20	.45	.30	.28	.06																					1.09		20
16	.14	.11	.25	.09																					.59		16
9	.15	.25	.19	.01																					.60		9
21	1.90	.25	.10	.46			.14																		2.85		21
23	.40	.15	.25	.30								.02					.02								1.14		23
SUMS	3.19	1.64	1.39	1.24	.02		.14				.02	.02					.02								7.68		SUMS
MEANS																											MEANS

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
June 13, 1938																											
22																											22
20																											20
16																											16
9																											9
21																											21
23																.02	.02		.04						.08		23
Sums																.02	.02		.04						.08		Sums
June 14, 1938																											
22					.04	.01	.03	.04	.12										.24	.20			.01	.01	.70		22
20					.07											.02			.25	.13		.02			.49		20
16				.05															.20	.16	.02	.01		.01	.45		16
9			.12					.01	.01				.01	.03	.13	.20	.20	.12	.10		.02	.02	.03		1.00		9
21				.10												.08	.04		.28	.08		.01			.59		21
23				.12												.18		.35	.17	.03	.05	.02			.92		23
Sums			.12	.27	.11	.01	.03	.05	.13				.01	.03	.13	.48	.24	.47	1.24	.60	.09	.08	.04	.02	4.15		Sums
June 15, 1938																											
22			.02				.03	.02																	.07		22
20																											20
16																											16
9																											9
21							.03																		.03		21
23																											23
SUMS			.02				.06	.02																	.10		SUMS
MEANS																											MEANS

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Final check by: [illegible]

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates ~~STATION~~ June 16, 17, 20, 22, 23, & 24, 1938 DATA Hourly precipitation from recording gages.

West Tarkio Creek Watershed

Stations listed in each watershed by location North to South.

Sta. No.	1	2	3	4	5	6	7	8	9	10	11	NOON	1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
	A. M.												P. M.														
June 16, 1938																											
22																											22
20										.02															.02		20
16										.17	.02														.19		16
0									.12	.12															.52		0
21									.10	.06		.02	.02				.01								.01		21
23													.10												.10		23
Sums									.22	1.25	.02	.02	.12				.01								1.74		Sums
June [illegible], 1938																											
22																											22
20																		.02							.02		20
16																											16
0																											0
21																											21
23																											23
Sums																		.02							.02		Sums
June 20, 1938																											
22																											22
20																											20
16																											16
0																											0
21																						.02	.06	.02	.10		21
23																											23
SUMS																						.02	.06	.02	.10		SUMS
MEANS																											MEANS

Sta. No.	1	2	3	4	5	6	7	8	9	10	11	NOON	1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
	A. M.												P. M.														
June 22, 1938																											
22																											22
20																											20
16																											16
0						.10										.01	.01		.01		.01				.14		0
21																											21
23									.02																.02		23
Sums						.10			.02							.01	.01		.01		.01				.16		Sums
June 23, 1938																											
22																											22
20																											20
16																											16
0								.01																	.01		0
21																											21
23																											23
Sums								.01																	.01		Sums
June 24, 1938																											
22																											22
20														.02		.01	.01		.01		.02	.01	.06		.14		20
16																											16
0																							.05		.05		0
21																							.05	.12	.17		21
23																					.02	.03	.03	.01	.09		23
SUMS														.02		.01	.01		.01		.04	.04	.19	.13	.45		SUMS
MEANS																											MEANS

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Final check by: G.N.M. & E.S.

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates June 25, 26, 27, 28, & 30, 1938 DATA Hourly precipitation from recording gages

West Tarkio Creek Watershed

Stations listed in each watershed by location North to South

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
June 25, 1938																											
22																											22
20																											20
16																											16
9									.01																.01		9
21																											21
23			.01	.01																					.02		23
Sums			.01	.01					.01																.03		Sums
June 26, 1938																											
22						.07	.12	.06	.04					.02											.31		22
20								.45																	.45		20
16												.16													.16		16
9							.01																		.01		9
21																											21
23																											23
Sums						.07	.13	.51	.04			.16		.02											.93		Sums
June 27, 1938																											
22																											22
20																											20
16																											16
9																											9
21																					.04	.01		.02	.07		21
23																											23
SUMS																					.04	.01		.02	.07		SUMS
MEANS																											MEANS

Sta. No.	A.M. 2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
June 28, 1938																										
22																										22
20																										20
16																										16
9																										9
21	.05																							.05		21
23																										23
Sums	.05																							.05		Sums
June 30, 1938																										
22																										22
20							.02																	.02		20
16																										16
9																										9
21																										21
23																										23
SUMS							.02																	.02		SUMS
MEANS																										MEANS

Form SCS—376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

STATION No. 4, July 1938 DATA Hourly precipitation from recording gage No. 4.

Tarkio River Watershed

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
1												July 1938											.07	.07	.14		1
2																											2
3																											3
4																											4
5																											5
6				.10																					.10		6
7													.03	.33	.24	.05									.65		7
8																											8
9																											9
10																											10
11																											11
12																											12
13	.04	.04																							.08		13
14																											14
15																											15
16			.02	.02																					.04		16
17																											17
18																											18
19																											19
20																											20
21																				.15					.15		21
22																											22
23																											23
24																											24
25																											25
26										.16	.09											.03			.28		26
27																											27
28																											28
29																											29
30						.01	.10	.05				.35													.51		30
31																											31
SUMS	.04	.04	.02	.12		.01	.10	.05		.16	.09	.35	.03	.33	.24	.05				.15		.03	.07	.07	1.95		SUMS
MEANS																											MEANS

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
SUMS																											SUMS
MEANS																											MEANS

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Final check by: C.M.M. & E.S.

Form SCS-376

CLIMATIC DATA SHEET

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Project No. SCS-IA-2
Shenandoah, Iowa.

Dates ~~STATION~~ July 1, 2, 3, 5, & 6, 1938 DATA Hourly precipitation from recording gages.

West Tarkio Creek Watershed

Stations listed in each watershed by location North to South

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
July 1, 1938																											
22																								.04	.04		22
20																			.03					.07	.10		20
16																								.10	.10		16
9																						.05	.03		.08		9
21																							.15	.03	.18		21
23																						.26	.21	.03	.50		23
Sums																			.03			.31	.39	.27	1.00		Sums
July 2, 1938																											
22	.01								.01																.02		22
20	.05																								.05		20
16																											16
9									.01																.01		9
21				.02																					.02		21
23				.14		.03																			.17		23
Sums				.16		.03			.02																.27		Sums
July 3, 1938																											
22																											22
20																											20
16																											16
9															.01										.01		9
21																											21
23																											23
SUMS															.01										.01		SUMS
MEANS																											MEANS

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
July 5, 1938																											
22																											22
20																						.01		.01	.02		20
16																											16
9																											9
21																											21
23																											23
Sums																						.01		.01	.02		Sums
July 6, 1938																											
22				.17			.02			.04															.23		22
20	.01	.01		.21	.12		[illegible]																		.42		20
16			.17	.02					.15																.34		16
9			.28																		.02			.30	.60		9
21			.11								.05														.16		21
23										.10	.05														.15		23
SUMS	.01	.01	.56	.40	.13		.08		.15	.14	.10										.02			.30	1.90		SUMS
MEANS																											MEANS

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Final check by: G.M.M. & E.S.

Form SCS-376

CLIMATIC DATA SHEET

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Project No. SCS-IA-1
Shenandoah, Iowa.
Dates July 7, 13, 16, 17, & 21, 1938 DATA Hourly precipitation from recording gages.

West Tarkio Creek Watershed

Stations listed in each watershed by location North to South.

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
July 7, 1938																											
22		.60	.12	.10	.06		.02																		.90		22
20	.50	.10	.10	.07			.01																		.78		20
16		.32	.12	.09																					.53		16
9	.25	.18	.01			.01																			.45		9
21	.35	.60	.17	.02																					1.14		21
23	.53	[illegible]	.27	.02			.01																		1.33		23
Sums	1.63	2.30	.79	.30	.06	.01	.04																		5.13		Sums
July [illegible], 1938																											
22																											22
20	.10																								.10		20
16	.05	.04																							.09		16
9																											9
21		.05																							.05		21
23		.12					.03																		.15		23
Sums	.15	.21					.03																		.39		Sums
July 16, 1938																											
22																											22
20																.04			.02						.06		20
16																											16
9					Station No. 9, distributed by interpolation from other stations.																			.06	.06		9
21																	.10							.14	.24		21
23																	.10							.14	.24		23
SUMS																.04	.20		.02					.34	.60		SUMS
MEANS																											MEANS

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
July 17, 1938																											
22																											22
20																											20
16																											16
9		.03	.04	.01	Station No. 9, distributed by interpolation from other stations.																				.08		9
21	.04	.02	.05	.05																					.16		21
23		.05	.20	.15		.04																			.44		23
Sums	.04	.10	.29	.21		.04																			.68		Sums
July 21, 1938																											
22															.02				.54						.56		22
20																.03	.01		.36			.01	.01		.42		20
16																			.10						.10		16
9																				.05			.02		.07		9
21																			.12	.03	.01	.02			.13		21
23																		.07	.09	.09	.01				.26		23
Sums																											
SUMS															.05	.03	.01	.07	1.21	.17	.02	.03	.03		1.62		SUMS
MEANS																											MEANS

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.
Dates
~~STATION~~: July 22, 25, 26, 27, & 30, 1938 DATA: Hourly precipitation from recording gages.

West Tarkio Creek Watershed

Stations listed in each watershed by location North to South

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
July 22, 1938																											
22																											22
20	.01				.01																				.02		20
16																											16
9																											9
21		.01																							.01		21
23							.01																		.01		23
Sums	.01	.01			.01		.01																		.04		Sums
July 25, 1938																											
22																											22
20																				.65					.65		20
16																											16
9																											9
21																											21
23																				.04					.04		23
Sums																				.69					.69		Sums
July 26, 1938																											
22									.30	.21	.30													.22	1.02		22
20																								.43	.43		20
16										.24															.24		16
9									.22	.09												.02	.02		.35		9
21										.14	.06		.03												.23		21
23									.15	.10								.02						.09	.36		23
SUMS									.57	.78	.45		.03					.02				.02	.02	.74	2.63		SUMS
MEANS																											MEANS

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
July 27, 1938																											
22								.02																	.02		22
20	.04																								.04		20
16																											16
9																											9
21																											21
23	.01																								[illegible]		23
Sums	.05							.02																	.07		Sums
July 30, 1938																											
22						.15	.02	[illegible]	[illegible]		.01														.23		22
20							.10	.0[illegible]	[illegible]	.0[illegible]	.08														.20		20
16						.08	.07					.16													.31		16
9						.01					.15	.01	.01	.01			.05								.24		9
21												.23	.05												.30		21
23							.10		.01		.02	.02		.02											.17		23
SUMS						.24	.28	.01	[illegible]	.02	.24	.44	.06	.03			.05								1.45		SUMS
MEANS																											MEANS

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa

STATION No. 4, August 1938 DATA hourly precipitation from recording gage No.4.

Tarkio River Watershed

August 1938

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
1																											1
2																											2
3																											3
4														.04											.04		4
5																											5
6			.39	.04	.11	.10	.03																		.67		6
7																				.36					.36		7
8																											8
9																											9
10																											10
11																											11
12																											12
13																											13
14																				.02	.29	.09	.12	.04	.56		14
15		.22		.04	.01	.01	.01																	.03	.12		15
16	.02	.06	.01	.10	.03			.05	.02				.02	.03	.02	.07	.02			.07			.01		.53		16
17																											17
18																											18
19																											19
20					.03										.26	.21	1.17	.36	.28						2.31		20
21																											21
22																											22
23																											23
24																											24
25																											25
26																											26
27																											27
28		.58	.17	.29	.13	.01																			1.18		28
29																											29
30																							.11		.11		30
31		.09																							.09		31
SUMS	.02	.75	.57	.47	.31	.12	.04	.05	.02				.02	.07	.28	.28	1.19	.36	.28	.45	.29	.09	.24	.07	5.97		SUMS
MEANS																											MEANS

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
SUMS																											SUMS
MEANS																											MEANS

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Final check by: G.N.M. & E.S.

Form SCS—376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates ~~STATION~~ August 1, 2, 3, 4, & 5, 1938 DATA Hourly precipitation from recording gages.

West Tarkio Creek Watershed

Stations listed in each watershed by location North to South

~~DATE~~ Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	~~DATE~~ Sta. No.
August 1, 1938																											
22																											22
20																											20
16																											16
9																											9
21																					.01	.02		.01	.04		21
23																											23
Sums																					.01	.02		.01	.04		Sums
August 2, 1938																											
22																											22
20																											20
16																											16
9																											9
21				.02		.04																			.06		21
23																											23
Sums				.02		.04																			.06		Sums
August 3, 1938																											
22																											22
20																			.02						.02		20
16																											16
9																											9
21																											21
23																											23
SUMS																			.02						.02		SUMS
MEANS																											MEANS

~~DATE~~ Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	~~DATE~~ Sta. No.
August 4, 1938																											
22																											22
20														.01											.01		20
16																											16
9																											9
21																											21
23																											23
Sums														.01											.01		Sums
August 5, 1938																											
22																		.02						.39	.41		22
20																		.03						.39	.42		20
16																											16
9																											9
21																											21
23																.03		.04	.01	.01		.01			.10		23
SUMS																.03		.09	.01	.01		.01		.78	.93		SUMS
MEANS																											MEANS

Copied by: W.M.M.
Checked by: W.M.M.
Final check by: G.N.M. & E.S.

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates August 6, 7, 9, 12, & 13, 1938 DATA Hourly precipitation from recording gages.

West Tarkio Creek Watershed

Stations listed in each watershed by location North to South.

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
August 6, 1938																											
22	.27	.27										.03													.57		22
20	.20	.16	.09																						.45		20
16	.14	.01	.25	.20	.05	.03																			.68		16
9			.87	.37	.06	.29	.10				.01														1.70		9
21				.30	.24	.76	.10	.10	.05						.03										1.58		21
23				.08	.12	.40	.20	.70	.50	.14				.01											2.15		23
Sums	.6		.21	.95	.47	1.48	.40	.80	.55	.14	.01	.03		.01	.03										7.13		Sums
August 7, 1938																											
22																			.10	.04					.14		22
20																				.04					.04		20
16																				.04	.23				.27		16
9		.05	.10	.10	.05	.05																			.35		9
21																											21
23										.03															.03		23
Sums		.05	.10	.10	.05	.05				.03									.10	.12	.23				.83		Sums
August 9, 1938																											
22																											22
20																											20
16																											16
9																				.02				.01	.03		9
21																											21
23																											23
SUMS																				.02				.01	.03		SUMS
MEANS																											MEANS

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
August 12, 1938																											
22																											22
20																											20
16																											16
9																											9
21																											21
23																						.01		.02	.03		23
Sums																						.01		.02	.03		Sums
August 13, 1938																											
22																											22
20																											20
16																											16
9																											9
21																											21
23	.03																								.03		23
SUMS	.03																								.03		SUMS
MEANS																											MEANS

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Final check by: G.N.M. & E.S.

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.
Dates ~~STATION~~ August 14, 15, 16, 20, & 21, 1938 DATA Hourly precipitation from recording gages.

West Tarkio Creek Watershed

Stations listed in each watershed by location North to South

Sta. No. \ DATE	1 A.M.	2	3	4	5	6	7	8	9	10	11	NOON	1 P.M.	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE / Sta. No.
August 14, 1938																											
22																				.35	.38	.10	.06	.14	1.03		22
20																				.02	.30	.30	.10	.14	.86		20
16																				.17	.38	.05	.30	.10	1.00		16
9																			.40	.17	.24	.16		.04	1.01		9
21																					.25	.39	.28	.17	1.09		21
23																					.62	.12	.20	.12	1.06		23
Sums																			.40	.71	2.17	1.12	.94	.71	6.05		Sums
August 15, 1938																											
22	.02	.02	.02	.01	.01	.01	.01	.04						.02	.03	.06	.16		.04		.01				.46		22
20	.11	.03	.02	.02		.03	.03	.01	.01					.02	.01	.02			.08						.39		20
16	.02	.01	.02	.05		.02	.02						.03	.02	.08		.04	.01			.33				.65		16
9		.05	.02		.19			.09								.07							.01	.01	.44		9
21		.05	.05		.06	.04	.02	.09		.02			.05	.12		.05									.55		21
23	.02	.04		.04	.05		.01			.01	.03	.05	.02	.09		.04								.02	.42		23
Sums	.17	.20	.13	.12	.31	.10	.09	.23	.02	.03	.03	.05	.10	.27	.12	.24	.20	.01	.12		.34		.01	.03	2.91		Sums
August 16, 1938																											
22		.02	.03	.01	.01	.03	.06	.02	.19																.37		22
20	.06	.06		.04	.02	.02	[illegible]	[illegible]	.02																.40		20
16		.03	.02	.03	.05	[illegible]	[illegible]	[illegible]																	.35		16
9	.03	.04	.03	.01	.01	.01	.01		.02					.10	.01										.27		9
21	.04	.01		.04	.01																				.10		21
23	.01	.03	.03	.02	.04				.01																.14		23
SUMS	.14	.19	.11	.15	.14	.10	.27	.18	.24					.10	.01										1.63		SUMS
MEANS																											MEANS

Sta. No. \ DATE	1 A.M.	2	3	4	5	6	7	8	9	10	11	NOON	1 P.M.	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE / Sta. No.
August 20, 1938																											
22					.12	.09		.12				.01	.04	.37	.95	.44	.24	.06							2.44		22
20					.04	.18		.13	.09					.01	.20	.50	.20								1.35		20
16					.42										.10	1.40	.80	.40							3.12		16
9						.03	.01											2.10	.14	.28					2.56		9
21															.01	.04	.55	.76	.01	.32					[illegible]		21
23															.10		.30			.23					.63		23
Sums					.58	.30	.01	.25	.09			.01	.04	.38	1.36	2.38	2.09	3.32	.15	.83					11.79		Sums
August 21, 1938																											
22												.02													.02		22
20																											20
16																											16
9																											9
21																											21
23																											23
SUMS												.02													.02		SUMS
MEANS																											MEANS

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Checked by: [illegible]
Final check by: [illegible] & B.S.

Form SCS—376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.
Dates
~~STATION~~ August 22, 27, 28, 30, & 31, 1938. DATA Hourly precipitation from recording gages.

West Tarkio Creek Watershed

Stations listed in each watershed by location North to South

Sta. No. \ DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	DATE Sta. No.
August 22, 1938																											
22												.01													.01		22
20																											20
16																											16
9																											9
21																											21
23																											23
Sums												.01													.01		Sums
August 27, 1938																											
22																								.13	.13		22
20																											20
16																											16
9																											9
21																											21
23									.05						.04	.01									.10		23
Sums									.05						.04	.01								.13	.23		Sums
August 28, 1938																											
22	.50	.14	.20		.44	.14	.03			.05															1.50		22
20	.84	.90	.30	.21	.34	.37	.22																		3.68		20
16		.08	.45	.23	.22	.13	.01												.01						1.18		16
9		.42	.46	.23	.09	.02																			1.22		9
21		.20	.30	.50	.03	.05	.02																		1.20		21
23		.20	.20	.30	.27	.03																			1.00		23
SUMS	1.34	1.04	1.91	1.47	1.39	1.29	.28			.05									.01						9.68		SUMS
MEANS																											MEANS

Sta. No. \ DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	~~DATE~~ Sta. No.
August 30, 1938																											
22																						.38			.38		22
20																						.40	.07		.47		20
16																						.48	.02		.50		16
9																					.02	.25			.27		9
21																							.27	.03	.30		21
23																						.08	.06		.14		23
Sums																					.02	1.59	.42	.03	2.06		Sums
August 31, 1938																											
22	.32	.26						.04																	.62		22
20	.27	.13																							.40		20
16		.09																							.09		16
9		.05									.01														.06		9
21			.07		.01																				.08		21
23		.02		.04	.02																				.08		23
SUMS	.59	.55	.07	.04	.03			.04			.01														1.33		SUMS
MEANS																											MEANS

Form SCS—376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

STATION No. 4, September 1938 DATA Hourly precipitation from recording gage No. 4.

Tarkio River Watershed

September 1938

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
1																											1
2														.03											.03		2
3																											3
4																											4
5										.29	.22	.05													.56		5
6																											6
7																											7
8																											8
9																											9
10																		.02	.24	.05		.04	.04	.08	.47		10
11	.13	.11	.11	.14	.06	.08	.08	.08																	.79		11
12																			.42	.15	.01	.01			.59		12
13						.02		.02	.31	.02							.38								.75		13
14																.01									.01		14
15																											15
16																											16
17							.02			.01															.03		17
18																											18
19																											19
20																											20
21																											21
22																											22
23																											23
24																											24
25																											25
26																											26
27																											27
28																											28
29																											29
30																											30
SUMS	.13	.11	.11	.14	.06	.10	.10	.10	.31	.32	.22	.05		.03		.01	.38	.02	.66	.20	.01	.05	.04	.08	3.23		SUMS
MEANS																											MEANS

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
SUMS																											SUMS
MEANS																											MEANS

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Final check by: W.M.M. & E.S.

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates
STATION September 2, 5, 6, 10, & 11, 1938 DATA Hourly precipitation from recording gages

West Tarkio Creek Watershed

Stations listed in each watershed by location North to South

Sta. No. \ DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE / Sta. No.
September 2, 1938																											
22																											22
20																											20
16																											16
9													.04												.04		9
21																											21
23																											23
Sums													.04												.04		Sums
September 5, 1938																											
22				.02					.03	.22	.22	.02	.04	.02											.57		22
20										.04	.12	.02	.02												.20		20
16										.08	.19	.08	.05												.40		16
9										.14	.79														.93		9
21											.10	.98													1.08		21
23											.49														.49		23
Sums				.02					.03	.48	1.91	1.10	.11	.02											3.67		Sums
September 6, 1938																											
22						.06						.02					.02	.03							.13		22
20																											20
16																											16
9																											9
21																											21
23																											23
SUMS						.06						.02					.02	.03							.13		SUMS
MEANS																											MEANS

Sta. No. \ DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE / Sta. No.
September 10, 1938																											
22				.07			.02												.07	.03	.06			.05	1.20		22
20					.20																.05			.05	.30		20
16																			.10	.10		.02	.01	.04	.27		16
9																.02	.20	.20	.02	.02	.11	.05	.10	.12	1.84		9
21																		.53	.11	.10	.03	.01		.05	.83		21
23																.39	.03		.08				.05	.05	.60		23
Sums				.07	.20		.02									.41	1.23	.73	1.28	.25	.25	.08	.16	.36	5.04		Sums
September 11, 1938																											
22	.10	.10	.06	.14	.08	.04		.18	.08	.02		.02													.92		22
20	.10	.10	.10	.15	.13	.04	.08	.70	.30			.02													1.72		20
16	.13	.14	.06	.15	.15	.08	.32	.30																	1.33		16
9	.13	.10	.14	.04	.10	.02	.08	.01		.01															.63		9
21	.10	.16	.25	.25	.20	.04	.03	.22																	1.25		21
23	.14	.06	.45	.39	.01	.02	.03					.10													1.20		23
SUMS	.75	.66	1.06	1.12	.67	.24	.54	1.41	.38	.03		.14													7.00		SUMS
MEANS																											MEANS

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Final check by: W.M.M. & E.S.

Form SCS—376

CLIMATIC DATA SHEET

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates ~~STATION~~ September 13, 14, 17, & 19, 1938 DATA Hourly precipitation from recording gages.

West Tarkio Creek Watershed

Stations listed in each paragraph by locations North to South

Sta. No.	1	2	3	4	5	6	7	8	9	10	11	NOON	1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
	A. M.												P. M.														
September 13, 1938																											
22									.05	.13	.02														.20		22
20									.34	.02	.02							.02							.40		20
16									.54								.29	.01							.84		16
9								.46								.14									.60		9
21									.04																.04		21
23																											23
Sums								.46	.97	.15	.04					.14	.29	.03							2.08		Sums
September 14, 1938																											
22					.02			.04						.02	.01										.09		22
20						.04	.02		.01																.07		20
16						.03										.03									.06		16
9																											9
21																											21
23																											23
SUMS					.02	.07	.02	.04	.01					.02	.01	.03									.22		SUMS
MEANS																											MEANS

Sta. No.	1	2	3	4	5	6	7	8	9	10	11	NOON	1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
	A. M.												P. M.														
September 17, 1938																											
22																											22
20										.03															.03		20
16																											16
9							.10																		.10		9
21																											21
23								.05																	.05		23
Sums							.10	.05		.03															.18		Sums
September 19, 1938																											
22																											22
20																											20
16																											16
9																											9
21																		.03							.03		21
23																											23
SUMS																		.03							.03		SUMS
MEANS																											MEANS

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Checked by: W.T.W.
Computed by: W.T.W.
Checked by: W.T.W.

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates ~~STATION~~ October 10 & 11, 1938 DATA Hourly precipitation from recording gages

~~DATE~~ Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	~~DATE~~ Sta. No.
Stations are listed in each watershed by location, North to South.																											
West Tarkio Creek Watershed																											
October 10, 1938																											
22																			.07						.07		22
20																			.08	.02					.10		20
16																			.09						.09		16
9																		.10							.10		9
21																									.00		21
23																									.00		23
Sums																		.10	.24	.02					.36		Sums
Means																		.02	.04	.00					.06		Means
Tarkio River Watershed																											
4																		.14							.14		4
SUMS																		.14							.14		SUMS
MEANS																		.14							.14		MEANS

~~DATE~~ Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	~~DATE~~ Sta. No.
West Tarkio Creek Watershed																											
October 11, 1938																											
22																							.22		.22		22
20																						.02	.07		.09		20
16																			.02						.02		16
9																			.14			.06			.20		9
21																			.13			.07			.20		21
23																		.10	.10		.08	.02			.30		23
Sums																		.10	.39		.08	.17	.29		1.03		Sums
Means																		.02	.06		.01	.03	.05		.17		Means
Tarkio River Watershed																											
4																			.01	.03		.01	.03		.08		4
SUMS																			.01	.03		.01	.03		.08		SUMS
MEANS																			.01	.03		.01	.03		.08		MEANS

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Checked by: W.T.W.
Computed by: W.T.W.
Checked by: W.T.W.

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa

Date October 12, 1938 DATA Hourly precipitation from recording gages

DATE / Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE / Sta. No.
	Stations are listed in each watershed by location, North to South.																										
	West Tarkio Creek Watershed																										
22										.01															.01		22
20																											20
16																											16
9																											9
21																											21
23																											23
Sums										.01															.01		Sums
Means										.00															.00		Means
	Tarkio River Watershed																										
4																						.02	.02		.04		4
SUMS																						.02	.02		.04		SUMS
MEANS																						.02	.02		.04		MEANS

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
SUMS																											SUMS
MEANS																											MEANS

Copied by: T.M.
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Computed by: T.M.
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Form SCS-376

Project No. SCS-IA-1
Shenandoah, Iowa.

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Dates
STATION November 1 & 2, 1938 DATA Hourly precipitation from recording gages.

Stations listed in each watershed by location from North to South

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
West Tarkio Creek Watershed																											
November 1, 1938																											
22																		.20							.20		22
20																			.14						.14		20
16																		.33							.33		16
9																		.23							.23		9
21																		.33							.33		21
23																		.25							.25		23
Sums																		1.34	.14						1.48		Sums
Means																		.22	.02						.25		Means
Tarkio River Watershed																											
33																			.19						.19		33
1																			.12						.12		1
36																		.13							.13		36
38																		.22	.03						.25		38
41																		.40							.40		41
4																		.18							.18		4
44																		.20							.20		44
47																		.14							.14		47
SUMS																		1.27	.34						1.61		SUMS
MEANS																		.16	.04						.20		MEANS

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
West Tarkio Creek Watershed																											
November 2, 1938																											
22										.01											.10	.16	.26	.13	.65		22
20																						.16	.22	.20	.58		20
16																						.16	.24	.16	.56		16
9																						.21	.26	.08	.55		9
21																						.26	.20	.14	.60		21
23																						.22	.25	.15	.62		23
Sums										.01											.10	.17	1.43	.86	3.56		Sums
Means										.00											.02	.20	.24	.14	.59		Means
Tarkio River Watershed																											
33																						.17	.19	.29	.65		33
1																						.10	.26	.18	.54		1
36																						.20	.20	.16	.56		36
38																						.14	.25	.12	.51		38
41																						.18	.25	.17	.60		41
4																						.20	.25	.10	.55		4
44																						.08	.24	.20	.40		44
47																							.20	.20	.40		47
SUMS																						1.01	1.84	1.42	4.27		SUMS
MEANS																						.12	.23	.18	.53		MEANS

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Checked by: W.T.W.

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates ~~STATION~~ November 3 & 4, 1938 DATA Hourly precipitation from recording gages.

Stations listed in each watershed by location from North to South

West Tarkio Creek Watershed

November 3, 1938

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
22	.09	.12	.18	.12	.14	.10	.14	.02	.12	.10	.21			.04							.01				1.39		22
20	.10	.20	.18	.11	.17	.10	.14	.05	.10	.25	.04		.03							.01					1.48		20
16	.14	.20	.14	.10	.12	.14	.10	.10	.15	.16		.03							.01	.01	.02				1.42		16
9	.20	.19	.18	.13	.12	.11	.03	.10	.17	.18		.03					.01				.01				1.51		9
21	.16	.20	.18	.12	.12	.08	.09	.10	.17	.19			.03									.02			1.46		21
23	.10	.23	.22	.11	.10	.12	.08	.11	.12	.18			.04				.01			.06					1.48		23
Sums	.79	1.14	1.08	.69	.77	.65	.63	.48	.83	1.06	.25	.06	.10	.04			.02		.01	.06	.04	.02			8.74		Sums
Means	.13	.19	.18	.12	.13	.11	.10	.08	.14	.18	.04	.07	.02	.01			.00		.00	.07	.01	.00			1.46		Means

Tarkio River Watershed

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
33	.04	.12	.23	.07	.14	.10	.12	.07	.10	.27	.02							.03				.05			1.30		33
1	.06	.19	.17	.12	.12	.10	.14	.06	.10	.25	.03		.02							.06					1.42		1
36	.14	.19	.13	.14	.12	.13	.10	.1[illegible]	[illegible]	.19										.04		.01			1.40		36
38	.21	.12	.15	.15	.10	.14	.09	.07	.10	.26			.03						.01			.02			1.45		38
41	.15	.20	.20	.17	.10	.18	.05	.09	.16	.17		.03					.02			.02					1.54		41
4	.21	.18	.15	.17	.11	.16	.07	.12	.17	.14		.02													1.50		4
44	.20	.10	.30	.05	.15	.15	.13	[illegible]	[illegible]	[illegible]	.04		.05			.01		.02				.01			1.90		44
47	.25	.25	.20	.22	.14	.14	.10	.10	.10	.21			.04				.03					.01			1.79		47
SUMS	1.26	1.35	1.53	1.29	.98	1.10	.80	.60	.93	1.72	.11	.05	.14			.01	.05	.05	.01	.12		.10			12.20		SUMS
MEANS	.16	.17	.19	.16	.12	.14	.10	.08	.12	.22	.01	.01	.02			.00	.01	.01	.00	.02		.01			1.52		MEANS

Sum of hourly means.....1.55

West Tarkio Creek Watershed

November 4, 1938

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
22		.03																							.03		22
20		.02																							.02		20
16	.02																								.02		16
9	.02																								.02		9
21		.02																							.02		21
23	.03																								.03		23
Sums	.07	.07																							.14		Sums
Means	.01	.01																							.02		Means

Tarkio River Watershed

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
33		.03	.01																						.04		33
1		.04																							.04		1
36		.05																							.05		36
38		.03																							.03		38
41	.04	.02																							.06		41
4	.09																								.09		4
44		.04																							.04		44
47		.02																							.02		47
SUMS	.13	.23	.01																						.37		SUMS
MEANS	.02	.03	.00																						.05		MEANS

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Checked by: W.T.W.

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates December 2 & 3, 1938 DATA Hourly precipitation from recording gages.

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
	Stations are listed in each watershed by location north to south.																										
	West Tarkio Creek Watershed																										
	December 2, 1938																										
22																						.05			.05		22
20							.02			.03															.05		20
16							.02				.03	.05													.10		16
9										.10	.06														.16		9
21									.02	.03	.13	.02													.20		21
23								.05	.05	.15	.08														.33		23
Sums							.04	.05	.07	.31	.30	.07										.05			.89		Sums
																									.15		Mean of sum
Means							.01	.01	.01	.05	.05	.01										.01			.15		Sum of Mean
	Tarkio River Watershed																										
33											.02														.02		33
1																											1
36										.01	.06														.07		36
38										.01	.01	.03													.05		38
41										.20	.12														.32		41
4										.09	.09														.18		4
44								.03	.02	.04	.15	.16													.41		44
47							.24		.06	.12	.11	.06													.59		47
Sums							.24	.03	.08	.43	.57	.25													1.60		Sums
																									.20		Mean of sum
MEANS							.03	.00	.01	.05	.07	.03													.19		Sum of Mean
MEANS																											MEANS

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
	West Tarkio Creek Watershed																										
	December 3, 1938																										
22																						.02			.02		22
20																											20
16																											16
9																											9
21																											21
23																											23
Sums																						.02			.02		Sums
Means																						.00			.00		Means
	Tarkio River Watershed																										
33																											33
1																											1
36																											36
38																											38
41																											41
4																											4
44																											44
47																											47
SUMS																											SUMS
MEANS																											MEANS

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Date December 8, 1938 DATA Hourly precipitation from recording gages.

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta.No.
	Stations are listed in each watershed by location, North to South																										
	West Tarkio Creek Watershed																										
22		.03																							.03		22
20			.02																						.02		20
16			.02																						.02		16
9																											9
21				.02																					.02		21
23			.01																						.01		23
Sums		.03	.05	.02																					.10		Sums
																									.02		Mean of sum
Means		.00	.01	.00																					.01		Sum of mean
	Tarkio River Watershed																										
33			.03																						.03		33
1			.06																						.06		1
36		.06																							.06		36
38		.03																							.03		38
41			.01																						.01		41
4																											4
44				.02																					.02		44
47				.01																					.01		47
Sums		.09	.10	.03																					.22		Sums
																									.03		Mean of sum
Means		.01	.01	.00																					.02		Sum of mean
SUMS																											SUMS
MEANS																											MEANS

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
SUMS																											SUMS
MEANS																											MEANS

Copied by: T.M.
Checked by: M.M.
Computed by: M.M.
Checked by: W.T.W.

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates ~~STATION~~ December 22 & 23, 1938 DATA Hourly precipitation from recording gages.

~~DATE~~ Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	~~DATE~~ Sta. No.
	Stations are listed in each watershed by location North to South																										
	West Tarkio Creek Watershed																										
	December 22, 1938																										
22			.01	.03	.02	.02	.01									.02								.01	.12		22
20			.05	.04	.02	.01										.01	.03								.16		20
16			.04	.08	.03	.07																			.22		16
9			.03	.03	.05	.01																			.12		9
21			.04	.08	.05	.02	.01																		.20		21
23			.05	.05	.04	.03	.02																		.19		23
Sums			.22	.31	.21	.16	.04									.01	.05							.01	1.01		Sums
																									.17		Mean of sum
Means			.04	.05	.04	.03	.01									.00	.01								.18		Sum of mean
	Tarkio River Watershed																										
33				.03	.02	.04	.01																		.10		33
1				.06	.06	.03	.02																		.17		1
36			.03	.03	.03	.01											.02								.12		36
38			.07	.05	.02	.02	.01													.02					.19		38
41				.05	.03	.02	.01																		.11		41
4			.03	.06	.04	.03	.01																		.17		4
44				.08	.04	.03	.02																		.17		44
47				.04	.04	.03	.01																		.12		47
Sums			.13	.40	.28	.21	.09										.02	.02							1.15		Sums
																									.14		Mean of sum
Means			.02	.05	.04	.03	.01										.00	.00							.15		Sum of mean
~~SUMS~~																											~~DATE~~
MEANS																											MEANS

~~DATE~~ Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	~~DATE~~ Sta. No.
	West Tarkio Creek Watershed																										
	December 23, 1938																										
22										.02														.01	.03		22
20																											20
16																											16
9																											9
21																											21
23																											23
Sums										.02														.01	.03		Sums
Means																								.00	.00		Means
	Tarkio River Watershed																										
33																											33
1																											1
36																											36
38																											38
41																											41
4																											4
44																											44
47																											47
SUMS																											SUMS
MEANS																											MEANS

Form SCS-376

Project No. Ia.-1
Shenandoah, Iowa

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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CLIMATIC DATA SHEET

Dates January 4 & 9, 1939 DATA Hourly precipitation from recording gages.

Stations listed in each watershed by location North to South.

January 4, 1939

West Tarkio Creek Watershed

Station No.	1	2	3	4	5	6	7	8	9	10	11	NOON	1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Station No.
22				.01																					.01		22
20				.02																					.02		20
16																											16
9																											9
21																											21
23			.01																						.01		23
Sums			.01	.03																					.04		Sums
																									.01		Mean of sums
Means			.00	.00																					.00		Sum of means

Tarkio River Watershed

Station No.	1	2	3	4	5	6	7	8	9	10	11	NOON	1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Station No.
33				.16																					.16		33
1				.06																					.06		1
36			.15																						.15		36
38			.06																						.06		38
41			.02																						.02		41
4			.02																						.02		4
44		.05																							.05		44
47	.05																								.05		47
Sums	.05	.05	.25	.22																					.57		Sums
																									.07		Mean of sums
	.01	.01	.03	.03																					.08		Sum of means
SUMS																											SUMS
MEANS																											MEANS

January 9, 1939

West Tarkio Creek Watershed

Station No.	1	2	3	4	5	6	7	8	9	10	11	NOON	1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Station No.
22		.04																							.04		22
20		.07																							.07		20
16		.05																							.05		16
9		.05																							.05		9
21		.05																							.05		21
23		.03																							.03		23
Sums		.29																							.29		Sums
																									.05		Mean of Sums
Means		.05																							.05		Sum of Means

Tarkio River Watershed

Station No.	1	2	3	4	5	6	7	8	9	10	11	NOON	1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Station No.
33		.02	.08																						.10		33
1		.04	.03																						.07		1
36		.07																							.07		36
38		.05	.01																						.06		38
41			.04																						.04		41
4		.02	.02	.01																					.05		4
44		.07																							.07		44
47		.03	.03																						.06		47
Sums		.30	.21	.01																					.52		Sums
																									.06		Mean of Sums
Means		.04	.03	.00																					.07		Sum of Means
MEANS																											MEANS

Form SCS-376

Project No. Ia.-1
Shenandoah, Iowa

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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Computed by T.M.
Checked by W.T.W.
Typing checked by W.T.W.

CLIMATIC DATA SHEET

Dates January 13 & 14, 1939 DATA Hourly precipitation from recording gages.

Station No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Station No.
Stations listed in each watershed by location, North to South.																											
January 13, 1939 — West Tarkio Creek Watershed																											
22								.01		.01	.01														.03		22
20						.04		.02	.01																.07		20
16							.02	.02				.01	.01												.06		16
9						.01	.01																		.02		9
21						.03		.02																	.05		21
23					.03																				.03		23
Sums					.03	.08	.03	.07	.01	.01	.01	.01	.01												.26		Sums
																									.04		Mean of Sums
Means					.00	.01	.00	.01	.00	.00	.00	.00	.00												.02		Sum of Means
Tarkio River Watershed																											
33								.04			.01	.01													.06		33
1							.01	.02																	.03		1
36							.01	.02	.02		.01														.06		36
38						.03	.01	.01	.01	.01		.01													.08		38
41						.03		.03																	.06		41
4							.01			.01				.01		.01									.04		4
44							.05		.04	.01															.10		44
47						.03		.02	.01			.01													.07		47
Sums						.09	.09	.14	.08	.03	.02	.03	.01		.01										.50		Sums
																									.06		Mean of Sums
Means						.01	.01	.02	.01	.00	.00	.00	.00		.00										.05		Sum of Means
MEANS																											MEANS

Station No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Station No.
January 14, 1939 — West Tarkio Creek Watershed																											
22											.01							.02	.02	.02	.02	.04	.02	.05	.19		22
20																	.01	.02	.01	.02	.02	.02	.02	.02	.14		20
16																					.01	.01	.01	.01	.04		16
9																					.01	.01	.03	.05	.10		9
21																				.01	.01	.01	.02	.01	.06		21
23																				.05	.07	.07	.02	.01	.22		23
Sums											.01						.01	.04	.03	.10	.14	.16	.12	.15	.75		Sums
																									.12		Mean of sums
Means											.00						.00	.01	.00	.02	.02	.03	.02	.02	.12		Sum of means
Tarkio River Watershed																											
33																			.05	.05	.02	.02	.02	.02	.18		33
1														.02			.01	.02	.03	.03	.02	.03	.02	.03	.21		1
36																		.01	.01	.01		.01		.01	.05		36
38																	.01		.01	.01	.01	.01	.02	.03	.10		38
41																				.01	.01	.01		.01	.04		41
4																							.01	.02	.03		4
44																					.01	.06	.03	.06	.16		44
47																				.02	.06	.05	.06	.05	.24		47
Sums														.02			.02	.03	.10	.13	.13	.19	.16	.33	1.01		Sums
																									.13		Mean of sums
Means														.00			.00	.00	.01	.02	.02	.02	.02	.03	.12		Sum of means
SUMS																											SUMS
MEANS																											MEANS

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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CLIMATIC DATA SHEET

Project No. Ia.-1
Shenandoah, Iowa

Dates January 15 & 17, 1939 DATA Hourly precipitation from recording gages.

Station No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Station No.
	Stations listed in each watershed by location from North to South																										
	January 15, 1939												West Tarkio Creek Watershed														
22	.05	.02	.02																						.09		22
20																											20
16	.02	.01		.01	.01																				.05		16
9	.05																								.05		9
21	.01	.01																							.02		21
23	.01																								.01		23
Sums	.14	.04	.02	.01	.01																				.22		Sums
																									.04		Mean of sums
Means	.02	.01	.00	.00	.00																				.05		Sum of means
	Tarkio River Watershed																										
33	.02																								.02		33
1	.02	.02	.02																						.06		1
36	.02	.01																							.03		36
38	.02		.01	.01																					.04		38
41	.04																								.04		41
4	.03	.07																							.10		4
44	.06	.05	.05																						.16		44
47	.04	.03																							.07		47
Sums	.25	.18	.08	.01																					.52		Sums
																									.06		Mean of sums
	.03	.02	.01	.00																					.06		Sum of means
MEANS																											MEANS

Station No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Station No.
	January 17, 1939												West Tarkio Creek Watershed														
22						.02	.02	.01																	.05		22
20				.01	.02	.01	.01	.01																	.06		20
16				.01	.02	.02	.02	.01																	.08		16
9			.01	.04	.02	.01																			.08		9
21			.01	.03	.01	.02	.02	.01																	.10		21
23		.02	.04	.04	.03	.01																			.14		23
Sums		.02	.06	.13	.10	.09	.07	.04																	.51		Sums
																									.08		Mean of sums
Means		.00	.01	.02	.02	.02	.01	.01																	.09		Sum of means
	Tarkio River Watershed																										
33			.01		.01	.03	.02	.01	.01																.09		33
1						.02	.02	.01	.01																.06		1
36				.01	.02	.02	.01	.01	.01																.08		36
38				.02	.03	.02	.01	.02	.01	.01															.12		38
41				.02	.02	.02	.02	.02	.01																.11		41
4				.01	.02	.01	.02	.02																	.08		4
44			.01		.01	.01	.01	.01																	.05		44
47				.02	.01	.01	.01	.01	.01	.01															.08		47
Sums			.02	.08	.12	.14	.12	.11	.06	.02															.67		Sums
																									.08		Mean of sums
Means			.00	.01	.02	.02	.02	.01	.01	.001															.09		Sum of means
SUMS																											SUMS
MEANS																											MEANS

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Form SCS-376 Project No. Ia-1
Shenandoah, Iowa

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Dates January 23 & 24, 1939 DATA Hourly precipitation from recording gages

Station No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Station No.
Stations listed in each watershed by location from North to South																											
January 23, 1939 — West Tarkio Creek Watershed																											
22							.02	.04	.01	.01	.01	.02	.02												.13		22
20							.06	.05	.05	.01	.02	.02	.03												.24		20
16							.08	.04	.01		.01	.01	.01												.16		16
9							.10	.05	.03	.02															.20		9
21							.05	.06	.03	.02	.01	.01	.02												.20		21
23						.05	.05	.03	.03	.01	.01	.02													.20		23
Sums						.05	.36	.27	.16	.07	.06	.08	.08												1.13		Sums
																									.19		Mean of sums
Means						.01	.06	.04	.03	.01	.01	.01	.01												.18		Sum of means
Tarkio River Watershed																											
33									.05	.05	.01	.01	.01	.01	.01	.01									.16		33
1								.02	.03	.04	.01	.02	.02	.03	.02										.19		1
36								.03	.03	.04	.01	.01	.01	.03											.16		36
38								.06	.04	.03	.02	.02	.02	.04			.01	.01							.25		38
41								.05	.05	.05	.01	.02	.01	.01											.20		41
4							.02	.04	.05	.04	.02	.01	.02												.20		4
44							.04	.04	.05	.01	.01	.01	.02												.18		44
47							.04	.04	.04	.01	.01	.02	.02												.18		47
Sums							.10	.28	.34	.27	.10	.12	.13	.12	.03	.01	.01	.01							1.52		Sums
																									.19		Mean of sums
Means							.01	.04	.04	.03	.01	.02	.02	.02	.00	.00	.00	.00							.19		Sum of means

Station No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Station No.
January 24, 1939 — West Tarkio Creek Watershed																											
22							.01																		.01		22
20																											20
16																											16
9																											9
21																											21
23																											23
Sums							.01																		.01		Sums
																									.00		Mean of sums
Means							.00																		.00		Sum of means
Tarkio River Watershed																											
33																											33
1	.02																								.02		1
36																											36
38																											38
41																											41
4																											4
44																											44
47																											47
Sums	.02																								.02		Sums
																									.00		Mean of sums
Means	.00																								.00		Sum of means

Form SCS-376

Project No. Ia-1
Shenandoah, Iowa

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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CLIMATIC DATA SHEET

Sheet 5 of 63 Sheets

Dates January 31, 1939 DATA Hourly precipitation from recording gages.

Station No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Station No.
Stations listed in each watershed by location from North to South.																											
West Tarkio Creek Watershed																											
22																											22
20																											20
16																											16
9																											9
21														.01	.02	.01									.04		21
23																.04									.04		23
Sums														.01	.02	.05									.08		Sums
																									.01		Mean of sums
Means														.00	.00	.01									.01		Sum of means
Tarkio River Watershed																											
33																											33
1																											1
36																	.01	.01							.02		36
38																											38
41																											41
4																	.01								.01		4
44																											44
47																.04									.04		47
Sums																.04	.02	.01							.07		Sums
																									.01		Mean of sums
Means																.00	.00	.00							.00		Sum of means
SUMS																											SUMS
MEANS																											MEANS

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
SUMS																											SUMS
MEANS																											MEANS

Form SCS-376

Project No. Ia.-1
Shenandoah, Iowa

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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CLIMATIC DATA SHEET

Dates February 9 & 16, 1939 DATA Hourly precipitation from recording gages.

Stations listed in each Watershed by location North to South.

February 9, 1939

Station No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Station No.
West Tarkio Creek Watershed																											
22				.05	.03	.01				.04	.21	.09	.11									.01			.55		22
20				.04	.02						.20	.09	.05						.01						.41		20
16				.03	.07			.01		.01	.18	.10	.14												.54		16
9				.02	.03			.01		.02	.16	.06	.09												.39		9
21				.06	.03					.03	.14	.09	.04						.01						.40		21
23				.09						.07	.13	.12	.02												.43		23
Sums				.29	.18	.01		.02		.17	.02	.55	.45						.02			.01			2.72		Sums
																									.45		Mean of sums
Means				.05	.03					.03	.17	.09	.08												.45		Sum of means
Tarkio River Watershed																											
33				.07	.02	.01				.05	.23	.10	.06												.54		33
1					.08	.04	.01	.01				.29	.12	.05					.01						.57		1
36				.05	.05		.02				.18	.14	.08												.52		36
38				.07	.02	.01			.01	.01	.20	.14	.05												.51		38
41				.05	.01	.01				.10	.22	.10	.02							.01					.52		41
4				.01	.04			.02			.22	.11	.09												.49		4
44					.05	.02					.15	.25	.15												.62		44
47					.02	.01	.01				.15	.17	.14												.59		47
Sums				.25	.29	.10	.04	.03	.01	.16	.35	.26	.71	.05					.01	.01					4.27		Sums
																									.53		Mean of sums
Means				.03	.04	.01				.02	.17	.16	.09	.01											.53		Sum of means
SUMS																											SUMS
MEANS																											MEANS

February 16, 1939

Station No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Station No.
West Tarkio Creek Watershed																											
22								.02	.01			.02	.02	.02											.09		22
20														.01											.01		20
16						.01	.01	.01					.01	.01	.01										.06		16
9																											9
21							.02	.01						.01											.04		21
23						.08							.01												.09		23
Sums						.09	.03	.04	.01			.02	.04	.05	.01										.29		Sums
																									.05		Mean of sums
Means						.02		.01					.01	.01											.05		Sum of means
Tarkio River Watershed																											
33								.01	.02	.01			.03	.02	.01										.10		33
1								.03		.01			.02	.02	.02										.10		1
36								.03	.01	.01		.01	.02	.01		Data for Sta. #36 interpolated									.09		36
38								.03	.01	.01		.01	.02	.01		from Stations 1,22, & 38									.09		38
41																											41
4						.01	.01	.01																	.03		4
44							.03		.01				.01	.01				.01							.07		44
47							.07	.01		.01				.01	.01										.11		47
Sums						.01	.11	.12	.05	.05		.02	.10	.08	.04			.01							.59		Sums
																									.07		Mean of sums
Means							.01	.02	.01	.01			.01	.01											.07		Sum of means
SUMS																											SUMS
MEANS																											MEANS

Form SCS-376

Project No. Ia.-1
Shenandoah, Iowa

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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CLIMATIC DATA SHEET

Dates February 17 & 27, 1939 DATA Hourly precipitation from recording gages.

Stations listed in each Watershed by location North to South

February 17, 1939

West Tarkio Creek Watershed

Station No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Station No.
22										.02															.02		22
20																											20
16																											16
9																											9
21																											21
23																											23
Sums										.02															.02		Sums
Means																											Means

Tarkio River Watershed

Station No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Station No.
33																											33
1																											1
36																											36
38																											38
41													.06												.06		41
4																											4
44																											44
47																											47
Sums													.06												.06		Sums
																											Mean of sums
Means													.01												.01		Sum of means
SUMS																											SUMS
MEANS																											MEANS

February 27, 1939

West Tarkio Creek Watershed

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
22																.01	.02	.01	.02	.07	.07	.03	.03	.01	.27		22
20																				.01		.01	.02	.01	.05		20
16																.01	.01	.01	.01	.01	.02	.01	.01	.03	.12		16
9																			.01	.02	.02	.02	.02	.01	.10		9
21																			.01	.01	.02	.03	.02	.01	.10		21
23																		.02	.03	.05	.05	.01	.04	.04	.24		23
Sums																.02	.03	.04	.08	.17	.18	.11	.14	.11	.88		Sums
																									.15		Mean of Sums
Means																		.01	.01	.03	.03	.02	.02	.02	.14		Sum of Means

Tarkio River Watershed

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
33																				.02	.03	.04	.03	.02	.14		33
1																	.01	.02	.01		.06	.04	.03	.03	.20		1
36																				.02	.03	.03			.08		36
38																.01	.03	.01	.01	.04	.03	.03	.03	.01	.20		38
41																					.01	.01	.02	.03	.07		41
4																	.02	.01		.03	.03	.02	.04	.02	.17		4
44																	.03	.05	.05	.05	.04	.02	.04	.02	.30		44
47																		.03	.05	.04	.01	.02	.03	.04	.22		47
Sums																.01	.09	.12	.12	.20	.24	.21	.22	.17	1.38		Sums
																									.17		Mean of Sums
Means																	.01	.02	.02	.02	.03	.03	.03	.02	.18		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Form SCS-376 Project No. Ia.-1
Shenandoah, Iowa

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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CLIMATIC DATA SHEET

Date February 28, 1939 DATA Hourly precipitation from recording gages.

Station No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Station No.
	Stations listed in each Watershed by location North to South																										
	West Tarkio Creek Watershed																										
22	.03	.08	.06	.05	.02	.02	.05	.01			.01														.33		22
20	.02			.01	.02	.01																			.06		20
16	.03	.04	.04	.05	.05	.05	.05	.03	.02	.01															.37		16
9	.01	.04	.03	.03																					.11		9
21	.01	.02	.01	.02	.03	.02		.01	.01	.01															.14		21
23	.03	.06	.07	.05	.01	.01	.01	.01	.01																.26		23
Sums	.13	.24	.21	.21	.13	.11	.11	.06	.04	.02	.01														1.27		Sums
																									.21		Mean of sums
Means	.02	.04	.04	.04	.02	.02	.02	.01	.01																.22		Sum of means
	Tarkio River Watershed																										
33	.01	.03	.03	.04	.03	.01	.01																		.16		33
1	.02	.03	.05	.06	.05	.03	.06	.03	.01																.34		1
36				.02	.02	.02																			.06		36
38	.01	.03	.06	.06	.04	.03	.04	.03																	.30		38
41	.03	.02	.03	.03	.04	.04		.01		.01															.21		41
4	.04	.04	.04	.05	.04	.02	.02		.02	.07	.01														.35		4
44	.04	.03	.10	.05	.05	.02	.01																		.30		44
47	.05	.14	.07	.02	.01	.01																			.30		47
Sums	.20	.32	.38	.33	.28	.18	.14	.07	.03	.08	.01														2.02		Sums
																									.25		Means of sums
Means	.02	.04	.05	.04	.04	.02	.02	.01		.01															.25		Sum of means
SUMS																											SUMS
MEANS																											MEANS

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
SUMS																											SUMS
MEANS																											MEANS

Form SCS-376

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U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates March 5 & 10, 1939 DATA Hourly precipitation from recording gages.

Stations listed in each watershed by location North to South

West Tarkio Creek Watershed

March 5, 1939

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
22						.01					.01	.03	.05	.03	.03	.01									.17		22
20				.01	.03	.04					.02	.04	.09	.01	.01	.01									.26		20
16			.05	.11	.03	.07					.04	.09	.06	.06	.01										.52		16
9			.02	.07	.01						.02	.05	.03	.01	.01	.01									.23		9
21			.01	.07	.01	.01						.06	.02												.18		21
23			.02	.07	.01							.03	.05	.01		.01									.20		23
Sums			.10	.33	.09	.13					.09	.30	.30	.12	.06	.04									1.56		Sums
																									.26		Mean of Sums
Means			.02	.06	.02	.02					.02	.05	.05	.02	.01	.01									.28		Sum of Means

Tarkio River Watershed

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
33					.03	.03							.03	.04		.03		.01	.01						.18		33
1												.01	.07	.04	.04	.01									.17		1
36					.04	.02	.01				.03	.04	.10	.05	.02	.01		.01							.33		36
38				.10	.07	.08				.01		.03	.08	.03	.03	.01		.01							.45		38
41			.03	.07	.02								.02	.02	.01	.01									.18		41
4				.13	.05						.02	.05	.03	.02											.30		4
44				.02	.05	.05						.02	.05	.01	.02	.01	.01								.24		44
47			.04	.08	.09	.01						.08	.01	.01	.01	.01	.01								.25		47
Sums			.07	.40	.35	.19	.01			.01	.05	.23	.39	.22	.13	.09	.02	.03	.01						2.20		Sums
																									.28		Mean of Sums
Means			.01	.05	.04	.02					.01	.03	.05	.03	.02	.01									.27		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

West Tarkio Creek Watershed

March 10, 1939

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
22																											22
20																											20
16																		.03			.01				.04		16
9																											9
21																											21
23																											23
Sums																		.03			.01				.04		Sums
																									.01		Mean of Sums
Means																											Sum of Means

Tarkio River Watershed

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
33																											33
1																											1
36																											36
38																			.01						.01		38
41																			.09						.09		41
4																	.16						.01		.17		4
44																											44
47																				.02					.02		47
Sums																	.16		.10	.02			.01		.29		Sums
																									.04		Mean of Sums
Means																	.02		.01						.03		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

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Form SCS-376 Project No. Ia.-1
Shenandoah, Iowa

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Dates March 11 & 12, 1939 DATA Hourly precipitation from recording gages.

Station No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Station No.
	Stations listed in each Watershed by location North to South.																										
	March 11, 1939																										
	West Tarkio Creek Watershed																										
22		.03	.01		.05	.03			.05	.03					.04	.05	.03	.06	.20	.12	.23	.14	.16	.03	1.26		22
20		.08			.05	.02			.07	.01		.04		.03				.07	.17	.26	.20	.21	.09		1.30		20
16	.01	.70	.06			.10			.06			.03		.04	.01	.01	.01	.01	.20	.23	.40	.26	.15	.13	2.41		16
9		.30			.04	.02			.07			.01	.01	.02			.03	.12	.27	.35	.32	.11	.07	.07	1.81		9
21	.02	.25	.03		.02	.06	.01	(Sta. 21 partly interpolated)									.05	.12	.27	.35	.37	.20	.04	.08	1.87		21
23	.04	.06	.06			.06	.01										.07	.10	.20	.32	.38	.26	.03	.06	1.65		23
Sums	.07	1.42	.16		.16	.29	.02		.25	.04		.08	.01	.09	.05	.06	.19	.48	1.31	1.63	1.90	1.18	.54	.37	10.30		Sums
																									1.72		Mean of sums
Means	.01	.24	.03		.03	.05			.04	.01		.01		.02	.01	.01	.03	.08	.22	.27	.32	.20	.09	.06	1.73		Sum of means
	Tarkio River Watershed																										
33							.02	.01		.01	.01		.03			.04		.11	.01	.20	.06	.12	.08	.05	.75		33
1			.01	.01		.05	.03			.04	.01		.02		.05	.03	.03	.02	.11	.19	.22	.10	.13	.07	1.12		1
36		.02	.06			.07	.01		.06		.02	.03	.01	.03		.01	.01	.05	.20	.28	.29	.26	.19	.03	1.63		36
38		.23	.07			.07	.01			.10			.03	.01	.01			.02	.13	.28	.27	.27	.14	.06	1.70		38
41	.24	.10			.06	.02		.04	.07					.02				.03	.27	.40	.40	.23	.10	.06	2.09		41
4		.16			.04	.03	.01		.04				.01	.01			.02	.10	.26	.42	.43	.26	.13	.05	1.97		4
44			.23			.07											.05	.01	.24	.40	.40	.32	.08	.12	1.92		44
47	.01	.04	.23			.09	.01									.05		.15	.28	.25	.47	.06	.06	.11	1.81		47
Sums	.25	.55	.60	.01	.10	.40	.09	.05	.17	.15	.04	.03	.10	.07	.06	.13	.11	.54	1.50	2.42	2.54	1.62	.91	.55	12.99		Sums
																									1.62		Mean of sums
Means	.03	.07	.08		.01	.05	.01	.01	.02	.02			.01	.01	.01	.02	.01	.07	.19	.30	.32	.20	.11	.07	1.62		Sum of means
SUMS																											SUMS
MEANS																											MEANS

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
	West Tarkio Creek Watershed																										
	March 12, 1939																										
22																											22
20																											20
16																											16
9																											9
21																											21
23	.06																								.06		23
Sums	.06																								.06		Sums
																									.01		
Means	.01																								.01		Mean of sums
	Tarkio River Watershed																										
33																											33
1																											1
36																											36
38																											38
41																											41
4																											4
44	.04																								.04		44
47	.01																								.01		47
Sums	.05																								.05		Sums
																									.01		Mean of sums
Means	.01																								.01		Sum of means
SUMS																											SUMS
MEANS																											MEANS

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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CLIMATIC DATA SHEET

Project SCS-Ia-1
Shenandoah, Iowa

Dates March 23 & 24, 1939 DATA Hourly precipitation from recording gages.

Stations listed in each Watershed by locations North to South

March 23, 1939

West Tarkio Creek Watershed

Station No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Station No.
22																											22
20																											20
16																											16
9																	.05								.05		9
21																.17									.17		21
23																											23
Sums																.17	.05								.22		Sums
																									.04		Mean of sums
Means																.03	.01								.04		Sum of means
Tarkio River Watershed																											
33																											33
1																											1
36																											36
38																											38
41																											41
4																	.02								.02		4
44																											44
47																											47
Sums																	.02								.02		Sums
																											Mean of sums
Means																											Sum of means
SUMS																											SUMS
MEANS																											MEANS

March 24, 1939

West Tarkio Creek Watershed

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
22																											22
20																							.08		.08		20
16																								.08	.08		16
9																											9
21																											21
23																							.01		.01		23
Sums																							.09	.08	.17		Sums
																									.03		Mean of sums
Means																							.02	.01	.03		Sum of means
Tarkio River Watershed																											
33																											33
1																											1
36																								.51	.51		36
38																							.46	.01	.47		38
41																											41
4																											4
44																								.11	.11		44
47																							.08		.08		47
Sums																							.54	.63	1.17		Sums
																									.15		Mean of sums
Means																							.07	.08	.15		Sum of means
SUMS																											SUMS
MEANS																											MEANS

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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CLIMATIC DATA SHEET

Project SCS-IA-1
Shenandoah, Iowa.

Dates ~~STATION~~ March 25 & 29, 1939 DATA Hourly precipitation report from recording gages.

Stations listed in each watershed by location
North to South

West Tarkio Creek Watershed

March 25, 1939

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
22			.08	.04																					.12		22
20			.06																						.06		20
16	.06	.05																							.11		16
9																											9
21																											21
23																											23
Sums	.06	.05	.14	.04																					.29		Sums
Means	.01	.01	.02	.01																					.05		Mean of Sums
																									.05		Sum of Means

Tarkio River Watershed

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
33			.01			.03																			.04		33
1				.03	.01	.01																			.05		1
36		.23	.01	.08																					.32		36
38	.01	.09	.01																						.11		38
41	.09																								.09		41
4																											4
44																											44
47																											47
Sums	.10	.32	.03	.11	.01	.04																			.61		Sums
Means	.01	.04		.01																					.08		Mean of Sums
																									.06		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

West Tarkio Creek Watershed

March 29, 1939

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
22				.01	.01	.01	.03	.05	.10	.06	.01	.04													.32		22
20					.01	.01	.02	.02	.04																.10		20
16			.01	.01		.02	.04	.04	.01	.02							.01	.01	.02	.01					.20		16
9							.02	.04	.07																.13		9
21				.04	.04	.04	.03	.03	.01									.01	.02	.01					.23		21
23				.01		.01	.06	.04	.06	.02								.01	.02	.01					.24		23
Sums			.01	.07	.06	.09	.20	.22	.29	.10	.01	.04					.01	.03	.06	.03					1.22		Sums
Means				.01	.01	.02	.03	.04	.05	.02		.01							.01						.20		Mean of Sums
																									.20		Sum of Means

Tarkio River Watershed

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
33			.01	.04	.01	.01	.02	.05	.04	.07	.02	.01	.01	.01											.30		33
1		.01	.02	.02	.02	.01	.03	.05	.03	.06	.04	.01													.35		1
36			.01		.01	.01	.01	.03	.05	.03	.01														.16		36
38			.01	.01		.03	.05	.02	.01	.01									.01						.15		38
41				.01		.03	.05	.04	.01										.01	.01					.16		41
4							.03	.03	.02	.03	.03	.02													.28		4
44				.01		.06	.03	.07	.01	.01	.02								.02	.02					.30		44
47		.01		.01		.02	.02	.03	.04	.04	.01	.01							.02	.02					.23		47
Sums		.02	.05	.10	.04	.11	.27	.39	.36	.25	.12	.07	.01	.01					.06	.05					1.91		Sums
Means			.01	.01		.01	.03	.05	.04	.03	.02	.01							.01	.01					.24		Mean of Sums
																									.23		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Form SCS-376

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U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Date ~~Station~~ March 31, 1939 DATA Hourly precipitation from recording gages.

Sta.No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta.No.
	Stations listed in each watershed by location North to South.																										
	West Tarklo Creek Watershed																										
22																.03	.01	.01							.05		22
20																	.27								.27		20
16																	.09								.09		16
9																	.04								.04		9
21																.13	.03								.16		21
23																	.07								.07		23
Sums																.16	.51	.01							.68		Sums
																									.11		Mean of Sums
Means																.03	.08								.11		Sum of Means
	Tarkio River Watershed																										
33																	.14	.02	.01	.01					.18		33
1																	.09	.02							.11		1
36																	.10	.01							.11		36
38																	.14								.14		38
41																	.16								.16		41
4																.05									.05		4
44																	.07	.03							.10		44
47																	.06	.04							.10		47
Sums																.05	.76	.12	.01	.01					.95		Sums
																									.12		Mean of Sums
Means																.01	.10	.02							.13		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
SUMS																											SUMS
MEANS																											MEANS

Form SCS-376

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U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates ~~STATION~~ April 2 & 4, 1939 DATA Hourly precipitation from recording gages.

Stations listed in each watershed by location North to South.

West Tarkio Creek Watershed

April 2, 1939

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID T	SUM	MEAN	Sta.No.
22						.04	.01																		.05		22
20			.01	.01		.07																			.09		20
16					.02	.02																			.04		16
9			.01	.01	.01																				.03		9
21				.04	.01	.01																			.06		21
23				.10																					.10		23
Sums			.02	.16	.04	.14	.01																		.37		Sums
																									.06		Mean of Sums
Means				.03	.01	.02																			.06		Sum of Means

Tarkio River Watershed

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID T	SUM	MEAN	Sta.No.
33				.02	.02	.01	.12																		.17		33
1				.01		.08	.01																		.10		1
36				.02		.08																			.10		36
38						.10																			.10		38
41						.11																			.11		41
4						.08																			.08		4
44				.02	.02	.02	.01																		.07		44
47				.03	.02	.03																			.08		47
Sums				.10	.06	.51	.14																		.81		Sums
																									.10		Mean of Sums
Means				.01	.01	.06	.02																		.10		Sum of Means
~~SUMS~~																											~~SUMS~~
MEANS																											MEANS

West Tarkio Creek Watershed

April 4, 1939

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID T	SUM	MEAN	Sta.No.
22																.03	.11	.08	.07	.05					.34		22
20																.05	.25	.12	.10	.04					.56		20
16															.03	.15	.30	.02	.10						.60		16
9																.20	.24	.14	.22	.01					.81		9
21															.02	.30	.28	.15	.17						.92		21
23																.30	.20	.15	.27	.06					.98		23
Sums															.05	1.03	1.38	.66	.93	.16					4.21		Sums
																									.70		Mean of Sums
Means															.01	.17	.23	.11	.16	.03					.71		Sum of Means

Tarkio River Watershed

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID T	SUM	MEAN	Sta.No.
33																	.02	.10	.06	.05					.23		33
1																	.06	.10	.09	.02					.27		1
36																.10	.14	.11	.05						.40		36
38																.04	.27	.09	.08	.03					.51		38
41																.08	.24	.19	.10	.07					.68		41
4															.01	.14	.27	.19	.15	.03					.79		4
44																.13	.23	.20	.15	.11					.82		44
47																.15	.20	.25	.23	.05					.88		47
Sums															.01	.64	1.43	1.23	.91	.36					4.58		Sums
																									.57		Mean of Sums
Means																.08	.18	.15	.11	.04					.56		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Form SCS-37a Project SCS-Ia.-1
Shenandoah, Iowa

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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CLIMATIC DATA SHEET
Sheet 15 of 63 Sheets

Date ~~XXXXXX~~ April 5, 1939 DATA Hourly precipitation from recording gages.

Station No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Station No.
	Stations listed in each Watershed by location North to South																										
	April 5, 1939									West Tarkio Creek Watershed																	
22					.03																				.03		22
20																											20
16																											16
9																											9
21																											21
23																											23
Sums					.03																				.03		Sums
Means																											Mean of sums
	Tarkio River Watershed																										
33					.02																				.02		33
1					.03																				.03		1
36					.02																				.02		36
38																											38
41																											41
4																											4
44																											44
47																											47
Sums					.07																				.07		Sums
																									.01		Mean of sums
Means					.01																				.01		Sum of means
~~SUMS~~																											~~XXXX~~
MEANS																											MEANS

Station No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Station No.
	April 9, 1939									West Tarkio Creek Watershed																	
22																											22
20																											20
16																											16
9																											9
21																								.02	.02		21
23																											23
Sums																								.02	.02		Sums
																											Mean of sums
Means																											Sum of means
	Tarkio River Watershed																										
33																											33
1																											1
36																											36
38																											38
41																											41
4																											4
44																											44
47																								.03	.03		47
Sums																								.03	.03		Sums
																											Mean of sums
Means																											Sum of means
SUMS																											SUMS
MEANS																											MEANS

Form SCS—376

Project No. SCS-IA-1
Shenandoah, Iowa.

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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CLIMATIC DATA SHEET

Dates ~~STATION~~ April 10 & 14, 1939 DATA Hourly precipitation from recording gages.

Stations listed in each watershed by location North to South

West Tarkio Creek Watershed

April 10, 1939

Sta. No.	1	2	3	4	5	6	7	8	9	10	11	NOON	1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
22																											22
20																											20
16			.04	.05	.01																				.10		16
9			.03	.13	.20	.02																			.38		9
21				.10	.20	.06																			.36		21
23				.06	.16	.10																			.32		23
Sums			.07	.34	.57	.18																			1.16		Sums
																									.19		Mean of Sums
Means			.01	.06	.10	.03																			.20		Sum of Means

Tarkio River Watershed

Sta. No.	1	2	3	4	5	6	7	8	9	10	11	NOON	1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
33																											33
1																											1
36																											36
38				.01																					.01		38
41				.05	.04	.04																			.13		41
4			.03	.10	.08	.01																			.22		4
44				.01	.15	.19																			.35		44
47				.08	.17	.05																			.30		47
Sums			.03	.25	.44	.29																			1.01		Sums
																									.13		Mean of Sums
Means				.03	.06	.04																			.13		Sum of Means
~~SUMS~~																											~~SUMS~~
MEANS																											MEANS

West Tarkio Creek Watershed

April 14, 1939

Sta. No.	1	2	3	4	5	6	7	8	9	10	11	NOON	1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
22																							.23	.01	.24		22
20						.05																.04		.01	.10		20
16																								.04	.04		16
9																								.05	.05		9
21																								.08	.08		21
23																								.02	.02		23
Sums						.05																.04	.23	.21	.53		Sums
																									.06		Mean of Sums
Means						.01																.01	.04	.04	.10		Sum of Means

Tarkio River Watershed

Sta. No.	1	2	3	4	5	6	7	8	9	10	11	NOON	1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
33							.04																.07	.07	.18		33
1							.07																.70		.77		1
36							.03																.10		.13		36
38							.03																	.01	.04		38
41																								.04	.04		41
4																							.01	.02	.03		4
44																				.01	.01	.01		.01	.04		44
47																								.05	.05		47
Sums							.17													.01	.01	.01	.88	.[illegible]	1.[illegible]		Sums
																									.16		Mean of Sums
Means							.02																.11	.02	.15		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Form SCS-376

Project No. SCS-IA-1
Shenandoah, Iowa.

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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CLIMATIC DATA SHEET

Dates ~~STATION~~ April 15 & 16, 1939 DATA Hourly precipitation from recording gages.

Stations listed in each watershed by location North to South.

West Tarkio Creek Watershed

April 15, 1939

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
22		.02						.01		.01					.02										.06		22
20		.01		.01		.01	.01	.01																	.05		20
16	.03	.01		.02	.01	.04	.02	.01																	.14		16
9	.06	.01	.04	.07	.04	.07																			.29		9
21	.04		.12	.13	.03	.07	.01																		.40		21
23	.06	.03	.02	.17	.15	.07	.09	.02																	.61		23
Sums	.19	.08	.18	.40	.23	.26	.13	.05		.01					.02										1.55		Sums
																									.26		Mean of Sums
Means	.03	.01	.03	.07	.04	.04	.02	.01																	.25		Sum of Means

Tarkio River Watershed

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
33				.04																				.03	.07		33
1			.05																						.05		1
36	.01		.01				.01	.02																	.05		36
38	.01	.01		.01	.01	.01	.03																		.08		38
41	.02			.03		.02	.03	.02								.07									.19		41
4	.03		.01	.03	.05	.05	.02	.05																	.24		4
44	.06	.05	.01	.03	.05	.01	.06	.03						.02		.14									.46		44
47	.08	.01	.06	.06	.03	.07	.03	.01					.01		.05						.02				.43		47
Sums	.21	.07	.14	.20	.14	.16	.18	.13					.01	.02	.05	.21					.02			.03	1.57		Sums
																									.20		Mean of Sums
MEANS	.03	.01	.02	.02	.02	.02	.02	.02							.01	.03									.20		Sum of Means

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
West Tarkio Creek Watershed																											
April 16, 1939																											
22																											22
20																											20
16																											16
9																											9
21																											21
23																											23
Sums																											Sums
																											Mean of Sums
Means																											Sum of Means
Tarkio River Watershed																											
33								.02																	.02		33
1																											1
36																											36
38																											38
41																											41
4															.01										.01		4
44																											44
47																											47
Sums								.02							.01										.03		Sums
																											Mean of Sums
Means																											Sum of Means
SUMS																											SUMS
MEANS																											MEANS

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates ~~STATION~~ April 17 & 18, 1939 DATA Hourly precipitation from recording gages.

Stations listed in each watershed by location North to South.

West Tarkio Creek Watershed

April 17, 1939

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
22									.02	.03	.01	.02	.05	.05	.01	.05	.03	.04	.03	.03	.03	.02	.01	.03	.46		22
20								.02	.02	.01	.01	.02	.02	.02	.02	.01	.02	.02		.01	.02	.01		.01	.24		20
16									.03	.01	.01	.03	.02	.02	.04	.04	.06	.03	.02		.03	.03	.01	.01	.29		16
9								.01	.01	.01	.01	.01	.02	.02	.05	.03	.02	.05	.03	.03	.01	.02	.02		.34		9
21										.01	.01	.01	.01	.05	.03	.05	.04	.05	.03	.04	.04	.02	.01		.35		21
23										.02			.01	.01	.01	.05	.04	.04	.03	.02	.03	.02	.02	.09	.31		23
Sums								.03	.08	.09	.05	.09	.13	.17	.16	.23	.21	.23	.16	.10	.13	.12	.07	.27	2.12		Sums
																									.35		Mean of Sums
Means									.01	.02	.01	.02	.02	.03	.03	.04	.04	.04	.03	.02	.02	.02	.01	.01	.37		Sum of Means

Tarkio River Watershed

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
33								.01		.01	.02	.04	.03	.03	.02	.05	.01	.02	.04	.02	.01	.01	.01	.01	.37		33
1								.01	.02	.01	.02	.02	.03	.03	.02	.02	.01	.05	.04	.02	.01	.02	.01	.01	.36		1
36								.04	.03	.01	.02	.02	.05	.03	.02	.01	.02	.02		.01		.01	.01	.01	.35		36
38								.04	.03	.01	.02	.02	.06	.05	.02	.06	.05	.07		.02	.02	.02	.02	.01	.43		38
41								.01	.02	.01	.02	.03	.02	.03	.04	.04	.05	.06	.01	.02	.02	.02	.01	.01	.42		41
4											.01		.04	.04	.02	.02	.03	.02				.04	.02	.01	.24		4
44										.03	.02	.02	.02	.02	.02	.02	.02	.02							.15		44
47								.01	.01	.01	.01	.01	.01	.03	.03	.03	.05	.04	.04	.01	.03	.04	.02	.01	.39		47
Sums								.12	.11	.09	.12	.20	.26	.30	.25	.29	.33	.33	.22	.30	.13	.20	.11	.09	3.45		Sums
																									.43		Mean of Sums
Means								.02	.01	.01	.02	.02	.03	.04	.03	.04	.04	.04	.03	.04	.02	.02	.01	.01	.43		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

West Tarkio Creek Watershed

April 18, 1939

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
22	.01				.01				.01																.03		22
20																											20
16																											16
9																											9
21																											21
23	.02																								.02		23
Sums	.03				.01				.01																.05		Sums
																									.01		Mean of Sums
Means																											Sum of Means

Tarkio River Watershed

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
33	.01	.01																							.02		33
1	.01	.02																							.03		1
36	.01																								.01		36
38																											38
41		.01		.01																					.02		41
4																											4
44	.01	.01	.01																						.03		44
47	.01																								.01		47
Sums	.05	.05	.01	.01																					.12		Sums
																									.02		Mean of Sums
Means	.01	.01																							.02		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Form SCS—376

Project No. SCS-IA-1
Shenandoah, Iowa.

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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CLIMATIC DATA SHEET
Sheet 19 of 63 Sheets

Date ~~STANCIN~~ April 26, 1939 DATA Hourly precipitation from recording gages.

DATE / Sta.No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta.No.
Stations listed in each watershed by location North to South																											
West Tarkio Creek Watershed																											
22																											22
20																				.03					.03		20
16																			.02						.02		16
9																											9
21																			.02	.02					.04		21
23																			.02	.03					.05		23
Sums																			.06	.08					.14		Sums
																									.02		Mean of Sums
Means																			.01	.01					.02		Sum of Means
Tarkio River Watershed																											
33																			.01						.01		33
1																		.01							.01		1
36																											36
38																			.01	.02					.03		38
41																											41
4																		.02							.02		4
44																			.02	.03	.01				.06		44
47																			.02	.03					.05		47
Sums																		.03	.07	.08	.01				.19		Sums
																									.02		Mean of Sums
Means																			.01	.01					.02		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
SUMS																											SUMS
MEANS																											MEANS

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates ~~STATION~~ May 3 & 4, 1939 DATA Hourly precipitation from recording gages.

Stations listed in each watershed by location North to South

West Tarkio Creek Watershed

May 3, 1939

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta.No.
22																											22
20																											20
16								.02																	.02		16
9																											9
21							.04	.03																	.07		21
23																								.01	.01		23
Sums							.04	.05																.01	.10		Sums
																									.02		Mean of Sums
Means							.01	.01																	.02		Sum of Means

Tarkio River Watershed

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta.No.
33																											33
1																											1
36																											36
38																											38
41																											41
4										.01															.01		4
44							.01																		.01		44
47																											47
Sums							.01			.01															.02		Sums
																											Mean of Sums
Means																											Sum of Means
SUMS																											SUMS
MEANS																											MEANS

West Tarkio Creek Watershed

May 4, 1939

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta.No.
22			.02								.01														.03		22
20			.03																						.03		20
16																											16
9																											9
21																											21
23																											23
Sums			.05								.01														.06		Sums
																									.01		Mean of Sums
Means			.01																						.01		Sum of Means

Tarkio River Watershed

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta.No.
33			.01																						.01		33
1			.04																						.04		1
36		.03	.05																						.08		36
38																											38
41		.01	.02																						.03		41
4				.01	.01																				.02		4
44		.03																							.03		44
47		.02																							.02		47
Sums		.09	.12	.01	.01																				.23		Sums
																									.03		Mean of Sums
Means		.01	.02																						.03		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Form SCS-376

Project SCS-Ia.-1
Shenandoah, Iowa

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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CLIMATIC DATA SHEET

Sheet 21 of 63 Sheets

Dates May 6 & 7, 1939 DATA Hourly precipitation from recording gages.

Stations listed in each Watershed by location North to South.

May 6, 1939 — West Tarkio Creek Watershed

Station No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Station No.
22																								.01	.01		22
20																											20
16																											16
9																											9
21																											21
23																											23
Sums																								.01	.01		Sums
Means																											Mean of sums
																											Sum of means

Tarkio River Watershed

Station No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Station No.
33																								.02	.02		33
1																								.01	.01		1
36																											36
38																											38
41																											41
4																											4
44																											44
47																											47
Sums																								.03	.03		Sums
																											Mean of sums
																											Sum of means
SUMS																											SUMS
MEANS																											MEANS

May 7, 1939 — West Tarkio Creek Watershed

Station No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Station No.
22																											22
20																											20
16																											16
9																											9
21		.02	.01																						.03		21
23	.02	.01																							.03		23
Sums	.02	.03	.01																						.06		Sums
Means																									.01		Mean of sums
																											Sum of means

Tarkio River Watershed

Station No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Station No.
33	.01																								.01		33
1																											1
36																											36
38																											38
41																											41
4																											4
44																											44
47	.02	.01																							.03		47
Sums	.03	.01																							.04		Sums
Means																											Mean of sums
																											Sum of means
SUMS																											SUMS
MEANS																											MEANS

Form SCS-374

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U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project SCS-IA-1
Shenandoah, Iowa.

Dates ~~STATION~~ May 17 & 18, 1939 DATA Hourly precipitation from recording gages.

DATE / Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE / Sta. No.
	Stations listed in each watershed by location North to South																										
	West Tarkio Creek Watershed																										
	May 17, 1939																										
22																	.18	.03	.03						.24		22
20																		.93							.93		20
16																							.04		.04		16
9																Time estimated -			.45						.45		9
21																		.01	.04	.07		.90	.10		1.12		21
23																				.26		.13	.13		.52		23
Sums																	.18	.97	.07	.78		1.03	.27		3.30		Sums
																									.55		Mean of Sums
Means																	.03	.16	.01	.13		.17	.04		.54		Sum of Means
	Tarkio River Watershed																										
33																											33
1																											1
36																.23	.25								.48		36
38																	.11	.09							.20		38
41																											41
4																			.01			.07			.08		4
44																			.05					.10	.15		44
47																			.23				.10		.33		47
Sums																.23	.36	.09	.29			.07	.10	.10	1.24		Sums
																									.16		Mean of Sums
Means																.03	.04	.01	.04			.01	.01	.01	.15		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

DATE / Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE / Sta. No.
	West Tarkio Creek Watershed																										
	May 18, 1939																										
22							.01																		.01		22
20					.07																				.07		20
16																											16
9																											9
21											.01														.01		21
23																											23
Sums					.07		.01				.01														.09		Sums
																									.02		Mean of Sums
Means					.01																				.01		Sum of Means
	Tarkio River Watershed																										
33																											33
1																											1
36																											36
38					.01					.01															.02		38
41																											41
4																											4
44																											44
47																											47
Sums					.01					.01															.02		Sums
																											Mean of Sums
Means																											Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Form SCS-376

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U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Sheet 23 of 63 Sheets

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates ~~STATION~~ May 22 & 25, 1939 DATA Hourly precipitation from recording gages.

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MDT	SUM	MEAN	Sta. No.
	Stations listed in each watershed by location North to South.																										
	West Tarkio Creek Watershed																										
	May 22, 1939																										
22																											22
20																											20
16							.01																		.01		16
9																											9
21						.04	.02																		.06		21
23							.03																		.03		23
Sums						.04	.06																		.10		Sums
																									.02		Mean of Sums
Means						.01	.01																		.02		Sum of Means
	Tarkio River Watershed																										
33																											33
1																											1
36																											36
38																											38
41								.01																	.01		41
4							.02																		.02		4
44							.03																		.03		44
47							.01	.01																	.02		47
Sums							.06	.02																	.08		Sums
																									.01		Mean of Sums
Means																									.01		Sum of Means
MEANS																											MEANS

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MDT	SUM	MEAN	Sta. No.
	West Tarkio Creek Watershed																										
	May 25, 1939																										
22														.03	.52	.09	.10	.04		.02				.22	1.02		22
20											.27	.33		.24	.01	.25	.03	.04					.13		1.35		20
16													.21	.06		.40	.20	.04							.91		16
9												.04		.04	.11	.25	.02								.45		9
21										.09	.01		.10	.18	.10	.14	.01								.63		21
23										.46	.19	.01		.20	.05	.10	.11								1.12		23
Sums										.55	.47	.33	.31	.75	.79	1.14	.61	.12		.02			.13	.22	5.49		Sums
																									.92		Mean of Sums
Means										.09	.08	.06	.05	.12	.13	.19	.12	.02					.02	.04	.92		Sum of Means
	Tarkio River Watershed																										
33													.05	.01		.04	.07	.01	.01				.07	.34	.60		33
1														.35		.07	.13	.03						.25	.83		1
36															.20	.20	.11	.06						.12	.69		36
38													.40	.09		.11	.10								.70		38
41												.25		.36	.41	.45	.06								1.53		41
4												.12	.05	.23	.12	[illegible]	.24								1.07		4
44												.08	.02	.04	.13	.63	.25	.02							1.04		44
47												.18	.04	.24	.28	.21	.03								.98		47
Sums												.63	.56	1.31	1.14	[illegible]	[illegible]	.12	.01				.07	.71	7.44		Sums
																									.93		Mean of Sums
Means												.08	.07	.16	.14	.26	.10	.02					.01	.09	.93		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Form SCS-376

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U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project SCS-IA-1
Shenandoah, Iowa.

Dates ~~STATION~~ May 26 & 27, 1939 DATA Hourly precipitation from recording gages.

Stations listed in each watershed by location North to South.

West Tarkio Creek Watershed

May 26, 1939

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
22	.03	.03	.03	.01				.02																	.12		22
20												.02													.02		20
16																		.03	.07						.10		16
9																.03	.30	.35	.02	.04					.74		9
21																	.22	.06							.28		21
23																		.03	.02						.10		23
Sums	.03	.03	.03	.01				.02				.02				.03	.52	.52	.11	.04					1.36		Sums
																									.23		Mean of Sums
Means																	.09	.09	.02	.01					.21		Sum of Means

Tarkio River Watershed

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
33																											33
1																.06			.37						.43		1
36																			.07						.07		36
38																				.01					.01		38
41																.07			.08						.15		41
4																		.10							.10		4
44																				.01					.01		44
47																		.06	.02	.02					.10		47
Sums																.13		.16	.54	.04					.87		Sums
																									.11		Mean of Sums
Means																.02		.02	.07						.11		Sum of Means

West Tarkio Creek Watershed

May 27, 1939

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
22																											22
20																											20
16																		.08							.08		16
9																	.04	.37		.03					.44		9
21	.12															.07	.01								.20		21
23																	.02	.02							.04		23
Sums	.12															.07	.07	.47		.03					.76		Sums
																									.13		Mean of Sums
Means	.02															.01	.01	.08							.12		Sum of Means

Tarkio River Watershed

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
33																											33
1																											1
36																		.05							.05		36
38																	.01								.01		38
41																.01		.01							.02		41
4																											4
44																	.01								.01		44
47																	.11	.14							.25		47
Sums																.01	.13	.20							.34		Sums
																									.04		Mean of Sums
Means																	.02	.02							.04		Sum of Means

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project SCS-Ia-1
Shenandoah, Iowa

Date ~~STATION~~ May 29, 1939 DATA Hourly precipitation from recording gages.

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
	Stations listed in each Watershed by location North to South.																										
	West Tarkio Creek Watershed																										
22										.01															.01		22
20																											20
16																											16
9																											9
21																											21
23									.02																.02		23
Sums									.02	.01															.03		Sums
																											Mean of Sums
Means																											Sum of Means
	Tarkio River Watershed																										
33																											33
1																											1
36								.01																	.01		36
38																											38
41																											41
4																											4
44							.01	.01																	.02		44
47																											47
Sums							.01	.02																	.03		Sums
																											Mean of Sums
Means																											Sum of Means
SUMS																											SUMS
MEANS																											MEANS

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
	Hourly precipitation from recording gages, Nos. 29 & 48 for May 1939																										
	Station No. 29								Note: Record started May 12, 1939																		
17																			.16				.05	.01	.22		17
22							.04																		.04		22
25												.15	.10	.02	.17	.28	.10								.82		25
26																.23		1.00	.08						1.31		26
	Station No. 48								Note: Record started May 12, 1939																		
17																			.14 (Time est.)						.14		17
25												.07	.02	.26	.10	.44	.16	.02							1.07		25
26																		.03	.10						.13		26
SUMS																											SUMS
MEANS																											MEANS

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U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project SCS-IA-1
Shenandoah, Iowa.

Dates ~~STATION~~ June 1 & 2, 1939 DATA Hourly precipitation from recording gages.

Stations listed in each watershed by location North to South

West Tarkio Creek Watershed

June 1, 1939

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta.No.
22																							.10	.20	.30		22
20																								.12	.12		20
16																								.08	.08		16
9																							.08	.01	.09		9
21																					.03	.50	.01	.01	.55		21
23																					.35	.14	.25	.02	.76		23
Sums																					.38	.64	.44	.44	1.90		Sums
																									.32		Mean of Sums
Means																					.06	.11	.07	.07	.31		Sum of Means

Tarkio River Watershed

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta.No.
33																								.01	.01		33
1																							.07	.17	.24		1
36																							.04	.06	.10		36
38																							.10	.12	.22		38
41																							.22	.10	.32		41
4																								.08	.08		4
44																							.17	.15	.32		44
47																						.02	.13	.03	.18		47
Sums																						.02	.73	.72	1.47		Sums
																									.18		Mean of Sums
Means																							.09	.09	.18		Sum of Means

West Tarkio Creek Watershed

June 2, 1939

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta.No.
22	.02							.02		.39	.04	.02													.49		22
20	.03									.24	.06														.33		20
16									.02	.21															.23		16
9										.26	.01														.27		9
21									.33	.02				.02											.37		21
23									.26	.02				.03											.31		23
Sums	.05							.02	.61	1.14	.11	.02		.05											2.00		Sums
																									.33		Mean of Sums
Means									.10	.19	.02			.01											.32		Sum of Means

Tarkio River Watershed

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta.No.
33	.07	.01									.20	.01			.10										.39		33
1										.31	.03														.34		1
36	.01									.29	.01														.31		36
38										.51															.51		38
41										.34	.01							.01							.36		41
4									.02	.33															.35		4
44	.01									.10	.04					.03									.18		44
47								.09	.01	.06					.04										.20		47
Sums	.09	.01						.09	.03	1.84	.29	.01			.14	.03		.01							2.64		Sums
																									.33		Mean of Sums
Means								.01		.24	.04				.02										.31		Sum of Means

Form SCS-376

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U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates June 7 & 8, 1939

DATA Hourly precipitation from recording gages.

Stations listed in each watershed by location North to South.

West Tarkio Creek Watershed

June 7, 1939

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
22															.40	.54	.06								1.00		22
20																1.57	.05			.05					1.67		20
16																	.57 (Time est.)								.57		16
9																.77 (Time est.)									.77		9
21																.37	.07								.44		21
23																.16	.04								.20		23
Sums															.40	3.41	.79			.05					4.65		Sums
																									.79		Mean of Sums
Means															.07	.57	.13			.01					.78		Sum of Means

Tarkio River Watershed

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
33																.92	.09			.04					1.05		33
1																.96	.05								1.01		1
36																1.97	.07								2.04		36
38															.91	1.42	.06								2.39		38
41																1.08	.04								1.12		41
4																.27	.31								.58		4
44																	.20	.18	.02						.40		44
47																.02	.52	.01							.55		47
Sums															.91	6.57	1.34	.19	.02	.04					9.07		Sums
																									1.13		Mean of Sums
Means															.11	.82	.17	.02							1.12		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

West Tarkio Creek Watershed

June 8, 1939

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
22													.01	.01									.02	.06	.10		22
20												.02	.01										.02	.12	.17		20
16																			(Time est.)				1.54	.36	1.90		16
9																			(Time est.)				.54	.59	1.13		9
21																						.05	.50	.23	.78		21
23																							.20	.23	.43		23
Sums												.02	.02	.01								.05	2.82	1.59	4.51		Sums
																									.75		Mean of Sums
Means																						.01	.47	.26	.74		Sum of Means

Tarkio River Watershed

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
33																								.06	.06		33
1																								.07	.07		1
36																							.05	.10	.15		36
38																							.16	.17	.33		38
41																						.59	.38	.16	1.13		41
4																						.52	1.24	.28	2.04		4
44																							.05	.65	.70		44
47																							.74	.50	1.24		47
Sums																						1.11	2.62	1.99	5.72		Sums
																									.72		Mean of Sums
Means																						.14	.33	.25	.72		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates June 9 & 10, 1939 DATA Hourly precipitation from recording gages.

Stations listed in each watershed by location North to South

West Tarkio Creek Watershed

June 9, 1939

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
22	.14	.05						.01	.03																.23		22
20	.05	.04																							.09		20
16		est.																									16
9		est.																									9
21	.04																								.04		21
23	.03																								.03		23
Sums	.26	.09						.01	.03																.39		Sums
																									.06		Mean of Sums
Means	.04	.02																							.06		Sum of Means

Tarkio River Watershed

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
33	.25	.21																							.46		33
1	.14	.10																							.24		1
36	.08	.03																							.11		36
38	.08	.04																							.12		38
41	.15																								.15		41
4	.18	.02																							.20		4
44	.28	.11	.01																						.40		44
47	.03	.04																							.07		47
Sums	1.19	.55	.01																						1.75		Sums
																									.22		Mean of Sums
Means	.15	.07																							.22		Sum of Means

West Tarkio Creek Watershed

June 10, 1939

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
22				.02	.11				.16	.50															.79		22
20				.24	.02				.60																.86		20
16			.16	.12	(Time est.)																				.28		16
9		.09	.21					.32	.36	(Time est.)															.98		9
21			.15	.13				.31	.38																.97		21
23			.21	.18					.51																.90		23
Sums		.09	.73	.69	.13			.32	.67	1.65	.50														4.78		Sums
																									.80		Mean of Sums
Means		.02	.12	.12	.02			.05	.11	.28	.08														.80		Sum of Means

Tarkio River Watershed

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
33				.02	.12	.13				.23															.50		33
1				.02	.15				.49	.16	.02														.84		1
36				.05	.15				.66																.86		36
38				.20	.09				.37	.01															.67		38
41				.27	.15				.11	.04															.57		41
4				.46	.04				.33																.83		4
44				.25	.29					.31															.85		44
47			.05	.28	.03				.64	.04															1.04		47
Sums			.05	1.55	1.02	.13			2.60	.79	.02														6.16		Sums
																									.77		Mean of Sums
Means			.01	.19	.13	.02			.32	.10															.77		Sum of Means

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Form SCS-316

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates June 13 & 18, 1939 DATA Hourly precipitation from recording gage.

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDNIGHT	SUM	MEAN	Sta. No.
	Stations listed in each watershed by location North to South.																										
	West Tarkio Creek Watershed																										
	June 13, 1939																										
22		.01	.02	.01	.01	.01	.01	.02	.02	.01	.01	.01	.53												.67		22
20	.01	.02	.03	.12	.03	.30	.02			.02															.54		20
16		.01	.03	.06	.05	.20	.04	.01	(Time est.)																.40		16
9		.01	.03		.02	.03	.01		(Time est.)																.10		9
21	.02																								.02		21
23	.02				.01	.02																			.05		23
Sums	.05	.05	.11	.19	.12	.56	.08	.03	.02	.02	.01	.01	.53												1.73		Sums
																									.30		Mean of Sums
Means	.01	.01	.02	.03	.02	.09	.01						.09												.28		Sum of Means
	Tarkio River Watershed																										
33		.31	.09	.10	.10	.07																			.67		33
1		.06	.06	.13	.11	.10																			.46		1
36			.01	.24	.25	.12																			.62		36
38		.03	.04	.02	.24	.10		.02																	.45		38
41					.09	.62																			.72		41
4					.41	.26																			.67		4
44		.03				.13	.02																		.16		44
47	.01					.02																			.03		47
Sums	.01	.43	.20	.49	1.20	1.42	.02	.02																	3.79		Sums
																									.42		Mean of Sums
Means		.05	.02	.06	.15	.18																			.46		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDNIGHT	SUM	MEAN	Sta. No.
	West Tarkio Creek Watershed																										
	June 18, 1939																										
22																(Time est.)			.50	.90	.10	.05	.00	.1[illegible]	1.75		22
20																			.50	.83	.10	.0[illegible]	.0[illegible]	.1[illegible]	1.50		20
16																(Time est.)			.61	.63	.10	.09	.05	.63	1.[illegible]		16
9																			.72	.31	.09	.10	.1[illegible]	.0[illegible]	1.40		9
21																			.83	.61	.09	.13	.11	.2[illegible]	1.[illegible]		21
23																			.40	.6[illegible]	.10	.07	.15	.2[illegible]	1.59		23
Sums																			3.56	3.73	.58	.59	.57	.70	9.[illegible]		Sums
																									1.57		Mean of Sums
Means																			.59	.57	.10	.08	.10	.13	1.57		Sum of Means
	Tarkio River Watershed																										
33																			.20	.20	.10	.13	.0[illegible]	.11	.7[illegible]		33
1																				.63	.11	.0[illegible]	.03	.12	1.0[illegible]		1
36																			1.05	.0[illegible]	.15	.08	.10	.1[illegible]	1.[illegible]		36
38																				.57	.14	.03	.1[illegible]	.1[illegible]	1.[illegible]		38
41																			.75	.10	.10	.0[illegible]	.0[illegible]	.0[illegible]	1.[illegible]		41
4																			.43	.21	.10	.06	.10	.1[illegible]	1.[illegible]		4
44																				.4[illegible]	.11	.0[illegible]	.05	.10	.50		44
47																			.18	.4[illegible]	.0[illegible]	.0[illegible]	.04	.02	.9[illegible]		47
Sums																			2.[illegible]	2.[illegible]	.[illegible]	.46	.5[illegible]	1.10	8.[illegible]		Sums
																									1.0[illegible]		Mean of Sums
Means																			.33	.57	.11	.0[illegible]	.07	.141	.[illegible]		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

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U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-Ia-1
Shenandoah, Iowa.

Dates
STATION June 19 & 20, 1939 DATA Hourly precipitation from recording gages.

Stations listed in each watershed by location North to South.

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
	West Tarkio Creek Watershed																										
	June 19, 1939																										
22	.08	.01	(Time est.)																						.09		22
20	.16	.02							.02	.05															.25		20
16	.02	(Time est.)																							.02		16
9	.01	(Time est.)																							.01		9
21	.01						.03		.02																.06		21
23	.13	.01						.05																	.19		23
Sums	.41	.04					.03	.05	.04	.05															.62		Sums
																									.10		Mean of Sums
Means	.07	.01						.01	.01	.01															.11		Sum of Means
	Tarkio River Watershed																										
33	.10	.06								.02															.18		33
1	.12	.06						.01	.03	.01															.21		1
36	.12							.01	.01	.03															.17		36
38	.13						.01	.02	.07	.03															.26		38
41	.02						.04	.03																	.09		41
4	.10						.04	.02																	.16		4
44	.20	.03						.07																	.30		44
47	.10	.01						.04	.02																.17		47
Sums	.89	.16					.09	.20	.11	.09															1.54		Sums
																									.19		Mean of Sums
Means	.11	.02					.01	.02	.01	.01															.18		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
	West Tarkio Creek Watershed																										
	June 20, 1939																										
22																			(Time est.)				.03	.28	.36		22
20																							.16	.24	.42		20
16																		(Time est.)				.40	.32	.20	.92		16
9																		(Time est.)				.00	.03	.07	.05		9
21																						.52	.10	.26	1.13		21
23																						.52	.10	.15	.77		23
Sums																						2.40	.84	1.30	4.63		Sums
																									.77		Mean of Sums
Means																						.42	.14	.22	.73		Sum of Means
	Tarkio River Watershed																										
33																						.05	.15	.26	.46		33
1																						.03	.50	.21	.74		1
36																							.25	.43	.73		36
38																							.25	.40	.65		38
41																							.43	.23	.66		41
4																						.11	.82	.08	1.01		4
44																							.80	.20	1.00		44
47																	.01				.07		.54	.34	.82		47
Sums																	.01				.07	.19	5.50	2.10	6.33		Sums
																									.77		Mean of Sums
Means																					.01	.02	.47	.26	.76		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Form SCS-376

Project No. SCS-IA-1
Shenandoah, Iowa.

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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CLIMATIC DATA SHEET

Dates June 21 & 22, 1939 DATA Hourly precipitation from recording gauge.

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
	Stations listed in each watershed by location North to South																										
	West Tarkio Creek Watershed																										
	June 21, 1939																										
22	.09	.09	.12	.44	.08	.02	(Time est.)														.08			.01	.93		22
20	.08	.08	.12	.38	.04																.40		.02	.01	1.13		20
16	.07	.07	.12	.19	.02		(Time est.)													.28	.10	.02	.02		.89		16
9	.06	.06	.13	(est.)		.07															.18	.12	.23	.03	.82		9
21	.15	.05	.16	.01						.10										.21	.30	.10	.71	.02	1.61		21
23	.18	.09	.20							.05	.05											.16	.10	.16	.99		23
Sums	.63	.44	.85	1.02	.14	.09				.15	.05									.79	1.06	.40	1.03	.23	6.63		Sums
																									1.10		Mean of Sums
Means	.10	.07	.14	.17	.02	.02				.02	.01									.08	.18	.07	.18	.04	1.10		Sum of Means
	Tarkio River Watershed																										
33	.11		.03	.13	.18															.20				.03	.68		33
1	.04	.20	.25	.10																.10	.06			.20	.95		1
36	.06	.04	.10	.03																	.22	.01	.01	.03	.62		36
38	.07	.12	.26	.07																	.14	.03	.07	.04	.80		38
41	.10	.06	.12	.09								.09									.04	.10	.14	.02	.76		41
4	.13	.06	.08	.14							.03										.06	.30	.10	.04	.99		4
44	.10	.20	.03	.07	.08						.02	.07										.22	.12	.31	1.20		44
47	.17	.32	.06	.10	.01						.05	.07										.28	.04	.93	2.15		47
Sums	.80	1.07	.93	.73	.27						.15	.23								.30	.62	.94	.46	1.65	8.16		Sums
																									1.02		Mean of Sums
Means	.10	.13	.12	.09	.03						.02	.03								.04	.08	.12	.06	.21	1.02		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
	West Tarkio Creek Watershed																										
	June 22, 1939																										
22	.02		.04	.09	.04				.04					.02											.25		22
20	.04			.03	.04																				.11		20
16			.14	.02																					.16		16
9	.42		.05																						.47		9
21	.06																								.06		21
23		.10																							.10		23
Sums	.54	.10	.23	.14	.08				.04					.02											1.15		Sums
																									.19		Mean of Sums
Means	.09	.02	.04	.02	.01				.01																.19		Sum of Means
	Tarkio River Watershed																										
33			.23	.17	.26																				.66		33
1			.08	.06	.05																				.19		1
36			.16	.10	.02																				.28		36
38	.09																								.09		38
41	.02			.02	.05		.03																		.12		41
4				.07																					.07		4
44	.03		.10		.07			.02																	.22		44
47	.01	.04				.01																			.06		47
Sums	.15	.04	.57	.42	.45	.01	.03	.02																	1.69		Sums
																									.21		Mean of Sums
Means	.02		.07	.05	.06																				.20		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

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U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa

Dates June 25 & 28, 1939 DATA Hourly precipitation from recording gages.

Stations listed in each watershed by location North to South.

West Tarkio Creek Watershed

June 25, 1939

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
22						.01	.08	.13	.08	.01				.02	.06	.03			.03						.45		22
20						.09	.20	.10						.01											.40		20
16					.02	.17	.25	.06						.04	.01										.55		16
9					.10	.28	.21						.44												1.03		9
21					.12	.27	.12						.27	.02											.80		21
23						.25	.31						.15												.71		23
Sums					.24	1.07	1.17	.29	.03	.01			.86	.09	.07	.03			.03						3.94		Sums
																									.66		Mean of Sums
Means					.04	.18	.20	.05	.01				.14	.02	.01										.65		Sum of Means

Tarkio River Watershed

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
33								.10						.03	(Time est.)										.13		33
1							.10	.16				.02		.06	.01	.02									.37		1
36						.02	.11	.20																	.33		36
38						.06	.21	.13						.02											.42		38
41					.05	.15	.31	.06																	.57		41
4						.21	.23	.06																	.55		4
44						.06	.10	.30	.03						.76	.01	.16								1.42		44
47						.09	.29	.10							.02	.01									.51		47
Sums					.05	.59	1.40	1.11	.03			.02		.11	.79	.04	.16								4.30		Sums
																									.54		Mean of Sums
Means					.01	.07	.18	.14						.01	.10		.02								.53		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

West Tarkio Creek Watershed

June 28, 1939

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
22																	.04	.01							.05		22
20																											20
16																											16
9																											9
21																											21
23																											23
Sums																	.04	.01							.05		Sums
																									.01		Mean of Sums
Means																	.01								.01		Sum of Means

Tarkio River Watershed

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
33																	.44	.01							.45		33
1																			.02						.02		1
36																			.42						.42		36
38																											38
41																											41
4																											4
44																											44
47																											47
Sums																	.44	.01	.44						.89		Sums
																									.11		Mean of Sums
Means																	.05		.06						.12		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

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U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project SCS-Ia-1
Shenandoah, Iowa

Sheet 33 of 63 Sheets

Date June 29, 1939 DATA Hourly precipitation from recording gages.

Station No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Station No.
	Stations listed in each Watershed by location North to South																										
	West Tarkio Creek Watershed																										
22								.01				.02													.03		22
20																											20
16																											16
9																											9
21																											21
23																											23
Sums								.01				.02													.03		Sums
																											Mean of sums
Means																											Sum of means
	Tarkio River Watershed																										
33																											33
1																											1
36																											36
38																											38
41																.21	.01								.22		41
4																											4
44																											44
47																.19	.04								.23		47
Sums																.40	.05								.45		Sums
																									.06		Mean of sums
Means																.05	.01								.06		Sum of means
SUMS																											SUMS
MEANS																											MEANS

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	DATE
SUMS																											SUMS
MEANS																											MEANS

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Form SCS-316

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Sheet 34 of 63 Sheets

Project No. SCS-IA-1
Shenandoah, Iowa.

STATION Nos. 29 & 48 for June 1939 DATA Hourly precipitation from stations Nos. 29 & 48.

Station No. 29

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MIDN	SUM	MEAN	DATE
1																							.07	.01	.08		1
2										.33															.33		2
7																.93									.93		7
8																					.13	.84	.37	.16	1.50		8
9	.03																								.03		9
10			.08	.18				.36	.11																.73		10
13	.02			.50	.24																				.76		13
18																		.70	.17	.07	.09	.12	.20	.05	1.40		18
19						.03	.05	.05																	.13		19
20																						.10	.02	.09	1.21		20
21	.04	.06	.13							.12											.81	.06	.07	.03	1.32		21
22			.11																						.11		22
25				.03	.19	.26	.02						.03												.58		25
SUMS	.09	.06	.32	.71	.43	.29	.07	.41	.11	.45			.03			.93		.70	.17	.07	1.03	2.12	.73	.34	9.11		SUMS
MEANS																											MEANS

Station No. 48

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MIDN	SUM	MEAN	DATE
1															(Record missing, data interpolated)									.03	.03		1
2										.28	(Record missing, data interpolated)														.28		2
7															2.23	(Time est.)									2.23		7
8																						.01	.07	.33	.41		8
9				.16	.15																				.31		9
10	.45	.15																							.60		10
13			.04	.20	.04	(Time of prec. estimated)																			.28		13
18							(Time of prec. estimated)												.60	.30	.08	.08	.03	.03	1.22		18
20							(Time of prec. estimated)															.90	.02	.08	1.00		20
21	.04	.05	.12							.10	(Time of prec. estimated)										.60	.05	.06	.03	1.05		21
22			.09				(Time of prec. estimated)																		.09		22
25						.20	.28																		.48		25
SUMS	.49	.20	.25	.36	.19	.20	.28			.38					2.23				.60	.30	.68	1.04	.23	.60	8.03		SUMS
MEANS																											MEANS

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Form SCS—376

Project No. SCS-IA-1
Shenandoah, Iowa.

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Dates July 1 & 3, 1939 DATA Hourly precipitation from recording gage.

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	DATE Sta. No.
	Stockline 12 x 4 in each rain gage by Locating North to South																										
	West Tarkio Creek Watershed																										
	July 1, 1939																										
22		.02																							.02		22
20			.03	.01																					.04		20
16		.21	.02	.07	.12																				.42		16
9			.03	.07	.12	.01				.01															.24		9
21		.18	.02	.10		.01	.01		.04																.36		21
23		.16	.00	.11		.01		.01	.01																.30		23
Sums		.57	.21	.35	.24	.03	.01	.01	.05	.01															1.49		Sums
																									.25		Mean of Sums
Means		.10	.04	.06	.04				.01																.25		Sum of Means
	Tarkio River (Formerly Part of Big Branch) Watershed																										
	Atlantic Station, Iowa.																										
33		.03																							.03		33
1																											1
35			.03	.01																					.03		35
38			.03		.03																				.06		38
41	.37	.03	.01	.14		.01																			.56		41
4			.03	.12																					.15		4
44			.01	.04	.14	.03																			.22		44
47			.05	.03	.11																				.19		47
Sums	.37	.11	.17	.34	.28	.04																			1.11		Sums
																									.17		Mean of Sums
Means	.03	.01	.02	.03	.03																				.13		Sum of Means

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	DATE Sta. No.
	Stockline 12 x 4 in each rain gage by Locating North to South																										
	West Tarkio Creek Watershed																										
	July 3, 1939																										
22																					.73	.13	.14		.87		22
20																						.03	.12	.13	.28		20
16																						.03	.32		.35		16
9																								.15	.15		9
21																								.33	.33		21
23		.2																									23
Sums																					.73	.19	.31	.61	2.24	.45	Sums
																										.14	Mean of Sums
Means																					.12	.05	.20	.20	.57		Sum of Means
	Tarkio River (Formerly Part of Big Branch) Watershed																										
	Atlantic Station, Iowa.																										
33																						.41	.24	.01	.66		33
1																						.03	.02		.05		1
35																							.03		.03		35
38																						.28	.22	.13	.63		38
41																				.01	.21	.13	.12		.47		41
4																							.03		.03		4
44																							.20	.11	.31		44
47																							.19	.13	.32		47
Sums																				.01	.21	.92	.96	.24	2.34	.01	Sums
																											Mean of Sums
Means																					.24	.23	.24	.06	.78		Sum of Means
Sums																											Sums
Means																											Means

Form SCS-370

Project No. SCS-IA-1
Shenandoah, Iowa.

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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CLIMATIC DATA SHEET

Dates July 4 & 5, 1939 DATA Hourly precipitation from recording gages.

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
	Stations listed in each watershed by location North to South.																										
	West Tarkio Creek Watershed																										
	July 4, 1939																										
22								.03			.01													.23	.27		22
20																								.10	.10		20
16		.38																							.38		16
9	.02	.30																							.32		9
21																											21
23																											23
Sums	.02	.68						.03			.01													.33	1.07		Sums
																									.18		Mean of Sums
Means		.11																						.06	.17		Sum of Means
	Tarkio River (formerly East Tarkio Creek) Watershed above Blanchard, Iowa.																										
33						.01																		.04	.05		33
1																											1
36	.05																								.05		36
38		.05																							.05		38
41	.12	.21																							.33		41
4	.26																								.26		4
44	.30	.20																							.50		44
47	.44	.04					.02																		.50		47
Sums	1.17	.50				.01	.02																	.04	1.74		Sums
																								.00	.22		Mean of Sums
Means	.15	.06																							.21		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
	West Tarkio Creek Watershed																										
	July 5, 1939																										
22	1.54	.02		.12	.47	.04	(Time est.)																		2.19		22
20	.24			.20	.56		(Time est.)																		1.00		20
16					.03	.22		.01						.01											.27		16
9																											9
21						.02																			.02		21
23					.03																				.03		23
Sums	1.78	.02		.32	1.09	.28		.01						.01											3.51		Sums
																									.58		Mean of Sums
Means	.30			.05	.18	.05																			.58		Sum of Means
	Tarkio River (formerly East Tarkio Creek) Watershed above Blanchard, Iowa.																										
33	1.74	.05		.11	.10	.03																			2.03		33
1	1.18	.04		.30	.16	.24																			1.92		1
36	1.85	.03		.18	.22	.12	(Time est.)																		2.40		36
38				.07	.28																				.35		38
41				.06	.30	.02	(Time est.)																		.38		41
4				.05	.29																				.34		4
44				.02	.01	.06																			.09		44
47						.03																			.03		47
Sums	4.77	.12		.79	1.35	.55																			7.59		Sums
																									.95		Mean of Sums
Means	.60	.02		.10	.17	.07																			.94		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates July 7 & 14, 1939 DATA Hourly precipitation from recording gages.

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID T	SUM		Sta. No.
Stations listed in each watershed by location North to South																											
West Tarkio Creek Watershed																											
July 7, 1939																											
22											.01														.01		22
20																											20
16																											16
9												.02													.02		9
21																											21
23																											23
Sums											.01	.02													.03		Sums
																									.00		Mean of Sums
Means																									.00		Sum of Means
Tarkio River (formerly East Tarkio Creek) Watershed above Blanchard, Iowa.																											
33																											33
1																											1
36												.06													.06		36
38																											38
41											.01														.01		41
4											.02														.02		4
44																											44
47																											47
Sums											.03	.06													.09		Sums
																									.01		Mean of Sums
Means												.01													.01		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID T	SUM		Sta. No.
West Tarkio Creek Watershed																											
July 14, 1939																											
22						.06																			.06		22
20						.03	.01																		.04		20
16																											16
9																											9
21																											21
23																											23
Sums						.14	.01																		.15		Sums
																									.02		Mean of Sums
Means						.02																			.02		Sum of Means
Tarkio River (formerly East Tarkio Creek) Watershed above Blanchard, Iowa.																											
33																											33
1																											1
36																											36
38						.20	.07																		.27		38
41																											41
4																											4
44																											44
47																											47
Sums						.20	.07																		.27		Sums
																									.03		Mean of Sums
Means						.02	.01																		.03		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Form SCS-376

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U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project SCS-Ia.-1
Shenandoah, Iowa

Dates July 16 & 17, 1939 DATA Hourly precipitation from recording gages.

Station No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Station No.
	Stations listed in each Watershed by location North to South																										
	July 16, 1939								West Tarkio Creek Watershed																		
22																											22
20																											20
16																											16
9																											9
21																											21
23																											23
Sums																											Sums
																											Mean of sums
Means																											Sum of means
	Tarkio River (formerly East Tarkio Creek) Watershed above Blanchard, Iowa																										
33																						.10			.10		33
1																											1
36																											36
38																											38
41																											41
4																											4
44																											44
47																											47
Sums																						.10			.10		Sums
																									.01		Mean of sums
Means																						.01			.01		Sum of means

Station No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Station No.
	July 17, 1939								West Tarkio Creek Watershed																		
22	.16	.01	.10	.08																					.35		22
20		.22	.12	.02																					.36		20
16	.20	.07	.07	.01																					.35		16
9		.40	.13																						.53		9
21	.30	.20	.02																						.52		21
23	.20	.15	.04																						.39		23
Sums	.86	1.05	.48	.11																					2.50		Sums
																									.42		Mean of sums
Means	.14	.18	.08	.02																					.42		Sum of means
	Tarkio River (formerly East Tarkio Creek) Watershed above Blanchard, Iowa																										
33		.25	.03	.05	.05	.01																			.39		33
1	.30	.07	.0[illegible]	.0[illegible]	(Distribution interpolated from Stations 33, 36, & 22)																				.45		1
36		.27	.06	.0[illegible]																					.35		36
38		.22	.0[illegible]	.01																					.31		38
41	.34	.13	.02																						.49		41
4	.17	.19	.08																						.44		4
44		.28	.15																						.43		44
47		.24																							.24		47
Sums	.81	1.65	.48	.10	.05	.01																			3.10		Sums
																									.39		Mean of sums
Means	.10	.21	.06	.01	.01																				.39		Sum of means
SUMS																											SUMS
MEANS																											MEANS

Form SCS-376

Project No. SCS-IA-1
Shenandoah, Iowa.

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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CLIMATIC DATA SHEET

Dates July 19 & 20, 1939 DATA Hourly precipitation from recording gages.

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
	Stations listed in each watershed by location North to South.																										
	West Tarkio Creek Watershed																										
	July 19, 1939																										
22																								.04	.04		22
20																								.12	.12		20
16																								.22	.22		16
9																								.23	.23		9
21																											21
23																											23
Sums																								.61	.61		Sums
																									.10		Mean of Sums
Means																								.10	.10		Sum of Means
	Tarkio River (formerly East Tarkio Creek) Watershed above Blanchard, Iowa.																										
33																											33
1																											1
36																								.02	.02		36
38																											38
41																								.05	.05		41
4																											4
44																											44
47																								.07	.07		47
Sums																								.14	.14		Sums
																									.02		Mean of Sums
Means																								.02	.02		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
	West Tarkio Creek Watershed																										
	July 20, 1939																										
22																											22
20																											20
16	.01																								.01		16
9	.02	.01																							.03		9
21																											21
23																											23
Sums	.03	.01																							.04		Sums
																									.01		Mean of Sums
Means																									.00		Sum of Means
	Tarkio River (formerly East Tarkio Creek) Watershed above Blanchard, Iowa.																										
33	.04																								.04		33
1	.03																								.03		1
36																											36
38	.16																								.16		38
41	.01																								.01		41
4	.20																								.20		4
44	.24	.02																							.26		44
47	.02																								.02		47
Sums	.70	.02																							.72		Sums
																									.09		Mean of Sums
Means	.09																								.09		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-I-1
Shenandoah, Iowa.

Dates July 24 & 25, 1939 DATA. Hourly precipitation from recording gages.

Date / Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Date / Sta. No.
	Stations listed in each watershed by																										
	Incoming Month to Sept.																										
	East Tarkio Creek Watershed																										
	July 24, 1939																										
22																											22
20																											20
16																								.04	.04		16
9														.08											.08		9
21																											21
23																											23
Sums														.08										.04	.12		Sums
																									.02		Mean of Sums
Means														.01										.01	.02		Sum of Means
	Tarkio River (formerly East Tarkio Creek) Watershed																										
	Above Shenandoah, Iowa.																										
33																											33
1																											1
36																											36
38																											38
41																											41
4																											4
44																											44
47																											47
Sums																											Sums
																											Mean of Sums
Means																											Sum of Means
MEANS																											MEANS

Date / Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Date / Sta. No.
	West Tarkio Creek Watershed																										
	July 25, 1939																										
22	.53	.49	.03	(Distribution interpolated from Stns 20, 1 & 29)																					1.05		22
20	.55	.50	.08																						1.13		20
16	.00	.85	.13																						1.00		16
9		1.05																							1.05		9
21	.50	.65																							1.15		21
23		.60	.22																						.82		23
Sums	1.78	4.14	.46																						6.32		Sums
																									1.05		Mean of Sums
Means	.29	.69	.03																						1.06		Sum of Means
	Tarkio River (formerly East Tarkio Creek) Watershed																										
	Above Shenandoah, Iowa.																										
35	.21	.73	.05																						.99		33
1	.58	.32	.02																						.92		1
36	.38	.59																							.97		36
38	.74	.50	.02	.01																					1.33		38
41	.04	.81																							.85		41
4		.74	.10																						.84		4
44	.16	.86																							1.02		44
47		1.00	.13																						1.13		47
Sums	2.11	5.54	.33	.01																					8.05		Sums
																									1.01		Mean of Sums
Means	.26	.69	.05																						1.00		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Date July 28, 1939 DATA Hourly precipitation from recording gages.

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
	Stations listed in each watershed by location North to South.																										
	West Tarkio Creek Watershed																										
22	.25	.55	(Distribution interpolated from stations 1,20 & 36)																						.80		22
20		.41																							.41		20
16		.37																							.37		16
9		.30	.05	.01																					.36		9
21		.53																							.53		21
23			.11																						.11		23
Sums	.25	2.16	.16	.01																					2.58		Sums
																									.43		Mean of Sums
Means	.04	.36	.03																						.43		Sum of Means
	Tarkio River (formerly East Tarkio Creek) Watershed above Blanchard, Iowa.																										
33	.12	.51	.03																						.66		33
1	.55	.11	.01																						.67		1
36		.67																							.67		36
38	.08																								.08		38
41		.20																							.20		41
4		.55																							.55		4
44			.42																						.42		44
47			.81																						.81		47
Sums	.75	2.04	1.27																						4.06		Sums
																									.51		Mean of Sums
Means	.09	.26	.16																						.51		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	DATE
SUMS																											SUMS
MEANS																											MEANS

Form SCS-376

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U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

STATIONS Nos. 29 & 48 for July 1939. DATA Hourly precipitation from recorder gages Nos. 29 & 48.

Station No. 29

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
1			.05	.07	.15					.03															.30		1
3																								.43	.43		3
4		.49																							.49		4
5				.01	.21																				.22		5
7												.02						.01	.01						.04		7
17		.34	.10	.06																					.50		17
19																								.19	.19		19
20	.03																								.03		20
25	.11	1.42	.05																						1.58		25
28	.39	.33																							.68		28
SUMS	.44	2.63	.20	.14	.36					.03		.02						.01	.01					.91	4.75		SUMS
MEANS																											MEANS

Station No. 48

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
1		.09	.15				.01																		.25		1
3																							1.00		1.00		3
4	.30																								.30		4
5			.20	.03																					.23		5
17		.35	.08																						.43		17
19																								.14	.14		19
20	.24	.01																							.25		20
25	.23	.63	.24																						1.20		25
28		.53																							.53		28
SUMS	.82	1.66	.67	.03			.01																1.00	.14	4.33		SUMS
MEANS																											MEANS

Form SCS-376

Project SCS-Ia.-1
Shenandoah, Iowa

U. S. DEPARTMENT OF AGRICULTURE
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HYDROLOGIC DIVISION

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CLIMATIC DATA SHEET

Dates August 1 & 2, 1939 DATA Hourly precipitation from recording gages.

Stations listed in each Watershed by location North to South.

August 1, 1939 — West Tarkio Creek Watershed

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID T	SUM	MEAN	DATE
22									.09			.13	.04		.02										.28		22
20											.08				.03										.11		20
16										.03				.07	.03										.13		16
9														.01											.01		9
21													.01	.01											.02		21
23								.04																	.04		23
Sums								.04	.09	.03	.09	.13	.05	.09	.08										.59		Sums
																									.10		Mean of sums
Means								.01	.02		.01	.02	.01	.02	.01										.10		Sum of means

Tarkio River Watershed, above Blanchard, Iowa

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID T	SUM	MEAN	DATE
33											.02		.40	.05	.41										.88		33
1											.02		.13	.02	.22						.14				.58		1
36										.05			.49												.54		36
38											.13	.27	.03	.03	.01	.01									.48		38
41											.18		.03	.01											.22		41
4										.04		.06	.01	.04	.04										.19		4
44										.19	.01			.06											.26		44
47									.10																.10		47
Sums									.10	.28	.36	.33	1.14	.21	.68	.01					.14				3.25		Sums
																									.41		Mean of sums
									.01	.04	.04	.04	.14	.03	.03						.02				.40		Sum of means
SUMS																											SUMS
MEANS																											MEANS

August 2, 1939 — West Tarkio Creek Watershed

Station No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	M.D.T	SUM	MEAN	Station No.
22																											22
20																											20
16																											16
9																											9
21																											21
23																											23
Sums																											Sums
																											Mean of sums
Means																											Sum of means

Tarkio River Watershed above Blanchard, Iowa

Station No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	M.D.T	SUM	MEAN	Station No.
33		.15																							.15		33
1		.11																							.11		1
36																											36
38																											38
41																											41
4																											4
44																											44
47																											47
Sums		.26																							.26		Sums
																									.03		Mean of sums
Means		.03																							.03		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

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U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project SCS-Ia.-1
Shenandoah, Iowa

Dates August 5 & 6, 1939 DATA Hourly precipitation from recording gages.

Station No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MDT	SUM	MEAN	Station No.
Stations listed in each Watershed by location North to South.																											
August 5, 1939 West Tarkio Creek Watershed																											
22																							.02	.02	.04		22
20																								.10	.10		20
16																								.03	.03		16
9																											9
21																											21
23																						.03		.01	.04		23
Sums																						.03	.02	.16	.21		Sums
																									.04		Mean of sums
Means																								.03	.03		Sum of means
Tarkio River Watershed, above Blanchard, Iowa																											
33																											33
1																							.01	.01	.02		1
36																							.02	.02	.04		36
38																								.05	.05		38
41																							.15	.05	.20		41
4																								.03	.03		4
44																											44
47																						.01	.01	.02	.04		47
Sums																						.01	.19	.15	.32		Sums
																									.05		Mean of sums
Means																							.02	.02	.04		Sum of means
SUMS																											SUMS
MEANS																											MEANS

Station No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MDT	SUM	MEAN	Station No.
August 6, 1939 West Tarkio Creek Watershed																											
22		.02		.02						.01															.05		22
20				.02																					.02		20
16	.03																								.03		16
9	.05																								.05		9
21	.02	.02																							.04		21
23	.01			.01																					.02		23
Sums	.11	.04		.05						.01															.21		Sums
																									.04		Mean of sums
Means	.02	.01		.01																					.04		Sum of means
Tarkio River Watershed, above Blanchard, Iowa																											
33	.05	.07	.05																						.17		33
1	.06	.10																							.16		1
36	.01	.05		.01	.01																				.08		36
38		.01		.01			.02																		.04		38
41	.05	.01	.01	.02																					.09		41
4	.02																								.02		4
44	.03	.03																							.06		44
47	.03	.01																							.04		47
Sums	.25	.28	.06	.04	.01		.02																		.60		Sums
																									.08		Mean of sums
Means	.03	.04	.01																						.08		Sum of means
SUMS																											SUMS
MEANS																											MEANS

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U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project SCS-Ia.-1
Shenandoah, Iowa

Dates August 7 & 8, 1939 DATA Hourly precipitation from recording gages.

Station No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Station No.
	Stations listed in each Watershed by location North to South.																										
	August 7, 1939							West Tarkio Creek Watershed																			
22													.19	.26			.35	.09		.02				.01	.92		22
20													.31				.40	.10				.04	.01	.02	.87		20
16																.29	.11	.03				.07	.02	.02	.54		16
9																.12	.06	.05		.10	.11	.52	.27	.07	1.30		9
21															.31	.12	.06		.29	.07	.94	.21	.07	.07	2.14		21
23															.30	.52	.08		.22	.42	.16	.77	.33	.11	2.91		23
Sums													.50	.26	.61	1.05	1.06	.27	.51	.21	.31	1.61	.70	.29	8.68		Sums
																									1.45		Mean of sums
Means													.08	.04	.10	.18	.18	.04	.08	.10	.30	.26	.12	.05	1.43		Sum of means
	Tarkio River Watershed above Blanchard, Iowa																										
33														.01	.03	.02		.07	.08						.21		33
1														.45	.04		.26	.30	.04					1.09		1
36													.22	.10			.40	.11				.05			.88		36
38													.17	.03			.22	.10	.01	.03	.01	.02	.01		.60		38
41																.16	.09	.06		.01	.08	.13	.10	.07	.70		41
4																.11	.11	.06		.06	.01	.19	.11	.04	.69		4
44																.32	.10	.08		.05	.17	.15	.15	.07	1.07		44
47																.30	.08	.01	.01	.20	.20	.22	.09	.09	1.20		47
Sums													.39	.59	.07	.91	1.26	.79	.14	.33	.47	.76	.46	.27	6.44		Sums
																									.89		Mean of sums
Means													.05	.07	.01	.11	.16	.10	.02	.04	.06	.10	.06	.03	.81		Sum of means
SUMS																											SUMS
MEANS																											MEANS

Station No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Station No.
	August 8, 1939							West Tarkio Creek Watershed																			
22						.19	.18	.03					.02	.01	.01										.44		22
20				.01		.26	.15	.03																	.45		20
16	.01	.05		.01	.21	.27	.10																		.65		16
9	.09	.03	.03	.03	.13	.15	.08																		.54		9
21	.05	.04	.02	.10	.10	.07	.03																		.41		21
23	.01	.02	.05	.03	.11	.09	.07																		.38		23
Sums	.16	.14	.10	.18	.55	1.03	.61	.06					.02	.01	.01										2.87		Sums
																									.48		Mean of sums
Means	.03	.02	.02	.03	.09	.17	.10	.01																	.47		Sum of means
	Tarkio River Watershed above Blanchard, Iowa																										
33						.02	.18	.07																	.27		33
1				.02		.04	.22	.06																	.34		1
36						.15	.30	.06																	.51		36
38		.01	.01	.01	.01	.36	.20	.05																	.65		38
41		.08	.02	.02	.08	.30	.10	.06																	.66		41
4	.03	.01	.01	.13	.04	.22	.09																		.51		4
44	.04	.06	.03	.03	.01	.17	.12	.07																	.53		44
47	.03	.06	.02	.01	.13	.10	.05																		.40		47
Sums	.10	.22	.09	.22	.27	1.34	1.26	.37																	3.87		Sums
																									.48		Mean of sums
Means	.01	.03	.01	.03	.03	.17	.16	.05																	.49		Sum of means
SUMS																											SUMS
MEANS																											MEANS

Form SCS-376

Project SCS-Ia.-1
Shenandoah, Iowa

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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CLIMATIC DATA SHEET

Dates August 10 & 12, 1939 DATA

Station No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Station No.
Stations listed in each Watershed by location North to South																											
August 10, 1939 — West Tarkio Creek Watershed																											
22																	.33	.10	.16						1.59		22
20																	.69								.69		20
16																	.02	.01	.02						.05		16
9															.01		.01	.01	.01	.01					.05		9
21													.02												.02		21
23												.01													.01		23
Sums												.01	.02		.01		1.05	1.02	.19	.01					2.41		Sums
																									.40		Mean of sums
Means																	.18	.19	.03						.40		Sum of means
Tarkio River Watershed above Blanchard, Iowa																											
33																	1.15	.29							1.44		33
1																	1.22	.88							2.10		1
36																	.70	.68							1.38		36
38															.01			.32	.01						.34		38
41																			.01						.01		41
4																											
4															.01	.01	.01	.01							.04		4
44															.02				.04	.03					.09		44
47																		.03	.02	.03					.06		47
Sums															.04	.01	3.08	2.21	.08	.04					5.46		Sums
																									.63		Mean of sums
Means																	.38	.28	.01						.67		Sum of means

Station No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Station No.
August 12, 1939 — West Tarkio Creek Watershed																											
22					.01	.02	.01																		.04		22
20				.01		.02																			.03		20
16			.01			.03																			.04		16
9			.03	.03		.05	.01																		.12		9
21			.07		.09																				.16		21
23			.06	.07																					.13		23
Sums			.17	.11	.10	.12	.02																		.52		Sums
																									.09		Mean of sums
Means			.03	.02	.02	.02																			.09		Sum of means
Tarkio River Watershed above Blanchard, Iowa																											
33						.09	.01																		.10		33
1						.01																			.01		1
36						.02						.02													.04		36
38			.01	.02		.01	.02																		.06		38
41		.01	.02			.02																			.05		41
4							.10																		.10		4
44			.01	.06	.06		.06																		.19		44
47			.03	.03		.10																			.16		47
Sums		.01	.07	.11	.06	.25	.19					.02													.71		Sums
																									.09		Mean of sums
Means			.01	.01	.01	.03	.02																		.08		Sum of means

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SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project SCS-IA-1
Shenandoah, Iowa.

Dates August 15 & 16, 1939 DATA Hourly precipitation from recording gages.

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
Stations listed in each watershed by location North to South.																											
West Tarkio Creek Watershed																											
August 15, 1939																											
22												.01	.01												.02		22
20																											20
16																.02									.02		16
9																											9
21																											21
23													.01					.02							.03		23
Sums												.01	.02			.02		.02							.07		Sums
																									.01		Mean of Sums
Means																											Sum of Means
Tarkio River Watershed, above Blanchard, Iowa.																											
33																											33
1																											1
36																											36
38																											38
41																											41
4																											4
44																											44
47															.02	.01									.03		47
Sums															.02	.01									.03		Sums
																											Mean of Sums
Means																											Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
West Tarkio Creek Watershed																											
August 16, 1939																											
22								.02	.02			.29													.33		22
20								.02																	.02		20
16							.16																		.16		16
9						.02																			.02		9
21						.03																			.03		21
23																											23
Sums						.05	.16	.04	.02			.29													.56		Sums
																									.09		Mean of Sums
Means						.01	.03	.01				.05													.10		Sum of Means
Tarkio River Watershed, above Blanchard, Iowa.																											
33							.01	.83	.32		.20	.03	.14												1.53		33
1							.54				.14	.14	.61												1.43		1
36							.01	.03					.53												.57		36
38							.01																		.01		38
41																											41
4							.02																		.02		4
44																											44
47																											47
Sums							.59	.86	.32		.34	.17	1.28												3.56		Sums
																									.44		Mean of Sums
Means							.07	.11	.04		.04	.02	.16												.44		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

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U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project SCS.-Ia.-1
Shenandoah, Iowa

Dates August 18 & 19, 1939 DATA Hourly precipitation from recording gages.

Station No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Station No.
							Stations listed in each watershed by location North to South																				
	August 18, 1939																										
									West Tarkio Creek Watershed																		
22																											22
20																				.09					.09		20
16																											16
9																											9
21																											21
23																											23
Sums																				.09					.09		Sums
																									.02		Mean of sums
Means																				.02					.02		Sum of means
							Tarkio River Watershed, above Blanchard, Iowa																				
33																			.12				.06		.18		33
1																											1
36																				.31					.31		36
38																				.04	.02				.06		38
41																						.02			.02		41
4																											4
44																											44
47																											47
Sums																			.12	.35	.02	.02	.06		.57		Sums
																									.07		Mean of sums
Means																			.02	.07			.01		.07		Sum of means
MEANS																											MEANS

Station No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Station No.
									West Tarkio Creek Watershed																		
			August 19, 1939																								
22			.02						.01													.08			.11		22
20																						.12			.12		20
16																											16
9																											9
21																											21
23																				.05					.05		23
Sums			.02						.01											.05		.20			.28		Sums
																									.05		Mean of sums
Means																				.01		.03			.04		Sum of means
									Tarkio River Watershed, above Blanchard, Iowa																		
33																											33
1																											1
36																											36
38																							.14		.14		38
41																											41
4																											4
44																											44
47																											47
Sums																							.14		.14		Sums
																									.02		Mean of sums
Means																							.02		.02		Sum of means
SUMS																											SUMS
MEANS																											MEANS

Form SCS-376

Project SCS-Ia.-1
Shenandoah, Iowa

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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CLIMATIC DATA SHEET

Dates August 20 & 22, 1939 DATA Hourly precipitation from recording gages.

Station No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Station No.
	Stations listed in each Watershed by location North to South.																										
	August 20, 1939																										
	West Tarkio Creek Watershed																										
22								.01		.01															.02		22
20																											20
16								.02																	.02		16
9								.02	.02																.04		9
21							.01	.01	.03																.05		21
23																											23
Sums							.01	.06	.05	.01															.13		Sums
																									.02		Mean of sums
Means								.01	.01																.02		Sum of means
	Tarkio River Watershed, above Blanchard, Iowa																										
33						.01		.04																	.05		33
1																											1
36																											36
38									.01																.01		38
41									.02																.02		41
4								.01	.02																.03		4
44								.01	.03																.04		44
47								.01	.02	.02															.05		47
Sums						.01		.07	.10	.02															.20		Sums
																									.02		Mean of sums
Means								.01	.01																.02		Sum of means
SUMS																											SUMS
MEANS																											MEANS

Station No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Station No.
	August 22, 1939								West Tarkio Creek Watershed																		
22				.26	.27	.01		.02	.05	.02	.01														.64		22
20					.13	.24		.03	.01	.03		.03													.47		20
16						.17		.06	.01	.04															.28		16
9					.12			.05	.01	.06	.04		.02												.30		9
21						.06				.06	.01														.13		21
23					.06			.01		.02		.01													.10		23
Sums				.26	.58	.48		.17	.08	.23	.06	.04	.02												1.92		Sums
																									.32		Mean of sums
Means				.04	.10	.08		.03	.01	.04	.01	.01													.32		Sum of means
	Tarkio River Watershed, above Blanchard, Iowa																										
33				.10	.30	.04		.04	.05																.54		33
1					.32	.01	.02	.02	.06	.04															.47		1
36					.30	.02	.01	.03	.01	.07															.44		36
38					.31	.11	.01	.01	.02	.03															.49		38
41					.10	.23	.01	.02	.04	.05															.45		41
4					.05	.07		.05	.02	.06															.25		4
44						.14		.01	.01	.13	.01	.01	.07												.38		44
47						.13			.01	.02	.01														.17		47
Sums				.10	.38	.75	.05	.16	.23	.40	.02	.01	.07												3.19		Sums
																									.40		Mean of sums
Means				.01	.17	.09	.01	.02	.03	.05			.01												.39		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Form SCS-375

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U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project SCS-Ia.-1
Shenandoah, Iowa

STATIONS #29 & #48 for August 1939 DATA Hourly precipitation for Stations 29 & 48.

Station No. 29

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
1													.06	.02	.02										.10		1
5																								.03	.03		5
7																.32	.11	.01			.11		.10	.03	.68		7
8	.02	.01	.01	.05	.23	.24	.09																		.65		8
10																	.04	(Time estimated)							.04		10
12			.03			.04	(Time estimated)																		.07		12
22					.34			.04	.04	.03															.45		22
SUMS																									2.02		SUMS
MEANS																											MEANS

Station No. 48

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
1													.02	.01	.04										.07		1
7																.18	.17	.09	.01	.02	.01	.22	.03	.04	.77		7
8	.04	.01	.01	.02	.07	.22	.09	.02																	.48		8
12																		.02	.06						.08		12
22					.06	.23		.05	.01	.04															.39		22
SUMS																									1.79		SUMS
MEANS																											MEANS

Form SCS-376

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U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates September 11 & 23, 1939 DATA Hourly precipitation from recording gages.

DATE / Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	DATE / Sta. No.
Stations listed in each watershed by location North to South.																											
West Tarkio Creek Watershed																											
September 11, 1939																											
22																											22
20																											20
16																											16
9																											9
21																											21
23																											23
Sums																											Sums
																											Mean of Sums
Means																											Sum of Means
Tarkio River Watershed, above Blanchard, Iowa.																											
33								.04																	.04		33
1																											1
36																											36
38																											38
41																											41
4																											4
44																											44
47																											47
Sums								.04																	.04		Sums
SUMS																											Mean of Sums
MEANS																											Sum of Means

DATE / Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	DATE / Sta. No.
West Tarkio Creek Watershed																											
September 23, 1939																											
22															.03										.03		22
20																											20
16																											16
9																											9
21																											21
23																											23
Sums															.03										.03		Sums
																											Mean of Sums
Means																											Sum of Means
Tarkio River Watershed, above Blanchard, Iowa.																											
33																											33
1																											1
36																											36
38																											38
41																											41
4																											4
44																											44
47																											47
Sums																											Sums
																											Mean of Sums
Means																											Sum of Means
SUMS																											SUMS
MEANS																											MEANS

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Form LCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.
Dates
STATION September 28 & 29, 1939 DATA Hourly precipitation from recording gages.

DATE / Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE / Sta. No.
	Stations listed in each watershed by location North to South.																										
	West Tarkio Creek Watershed																										
	September 28, 1939																										
22																			.01				.03		.04		22
20																		.01					.02	.14	.17		20
16																			.02			.02	.06		.10		16
9																						.07		.01	.03		9
21																					.02	.02	.04		.08		21
23																			.02			.05	.06	.04	.17		23
Sums																		.01	.05		.02	.16	.21	.19	.64		Sums
																									.11		Mean of Sums
Means																			.01			.03	.04	.03	.11		Sum of Means
	Tarkio River Watershed, above Blanchard, Iowa.																										
33												(Amount & Distribution est.)							.02			.03		.02	.05		33
1																			.03			.03	.01	.03	.10		1
36																								.04	.04		36
38																							.05	.05	.10		38
41																								.01	.01		41
4																											4
44																								.01	.01		44
47																						.03	.01	.04	.08		47
Sums																			.05			.08	.07	.20	.40		Sums
																									.05		Mean of Sums
Means																			.01			.01	.01	.02	.05		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

DATE / Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE / Sta. No.
	West Tarkio Creek Watershed																										
	September 29, 1939																										
22	.04	.09	.15	.08			.02		.02																.40		22
20	.01	.12	.11	.02		.02																			.28		20
16		.06	.16	.04	.01	.05	.01																		.33		16
9	.02	.12	.05	.03	.06	.04	.03																		.35		9
21	.07	.12	.05	.05	.07	.06																			.42		21
23		.13	.13	.07	.06	.10	.06																		.55		23
Sums	.14	.64	.65	.29	.20	.27	.12		.02																2.33		Sums
																									.39		Mean of Sums
Means	.02	.11	.11	.05	.03	.04	.02																		.38		Sum of Means
	Tarkio River Watershed, above Blanchard, Iowa.																										
33	.03	.04	.04	.10			.01	(Amount & Distribution estimated)																	.22		33
1	.04	.06	.06	.14			.02																		.32		1
36	.10	.01	.05	.16	.02		.02																		.36		36
38	.01	.03	.11	.05	.01	.04	.01																		.26		38
41		.13	.08	.03	.04	.05	.02																		.35		41
4		.09	.10	.03	.04	.07	.06																		.39		4
44	.04	.05	.15	.05	.06	.06	.05	.02																	.48		44
47	.01	.12	.11	.05	.11	.05	.04																		.49		47
Sums	.23	.53	.70	.61	.28	.27	.23	.02																	2.87		Sums
																									.36		Mean of Sums
Means	.03	.07	.09	.08	.04	.03	.03																		.37		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

STATIONS #29 & #48 for September, 1939 DATA Hourly precipitation for Stations #29 & #48.

Station No. 29

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
29	.05	.11	.05	.02	.05	.07																			.35		29
SUMS																									.35		SUMS
MEANS																											MEANS

Station No. 48

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
29		.06	.10	.03	.03	.04	.05																		.31		29
SUMS																									.31		SUMS
MEANS																											MEANS

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project SCS-Ia-1
Shenandoah, Iowa

Dates October 4 & 8, 1939 — Hourly precipitation from recording gages.

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
	Stations listed in each watershed by location North to South.																										
	West Tarkio Creek Watershed																										
	October 4, 1939																										
22																					.18				.18		22
20																						.06			.06		20
16																						.02			.02		16
9																						.03			.03		9
21																					.06				.06		21
23																						.07			.07		23
Sums																					.24	.18			.42		Sums
																										.07	Mean of Sums
Means																					.04	.03			.07		Sum of Means
	Tarkio River Watershed																										
33																						.25			.25		33
1																						.13			.13		1
36																						.04			.04		36
38																						.02			.02		38
41																						.01			.01		41
4																							.02		.02		4
44																						.10			.10		44
47																						.18			.18		47
Sums																						.75	.02		.75		Sums
																										.09	Mean of Sums
Means																						.09			.09		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
	West Tarkio Creek Watershed																										
	October 8, 1939																										
22										.03	.01	.01	.01	.03	.03					.10	.17	.23	.20		.82		22
20										.06		.01	.03	.11			.01	.01		.07	.31	.31	.21	.09	1.22		20
16									.02	.02		.05	.01	.12				.01		.09	.34	.26	.17	.11	1.20		16
9										.05			.02	.14	.01	.01	.01	.01	.03	.17	.30	.20	.20	.04	1.19		9
21	(Dist. by Interpolation.)								.03	.04		.03	.01	.13	.01	.01	.01	.07	.03	.12	.31	.20	.17	.02	1.13		21
23									.04	.05		.04	.02	.11	.01	.01	.01	.01	.05	.13	.43	.22	.16	.02	1.31		23
Sums									.09	.25	.01	.14	.10	.64	.06	.03	.04	.05	.11	.68	1.86	1.42	1.11	.23	6.87		Sums
																									1.14		Mean of Sums
Means									.02	.04		.02	.02	.11	.01		.01	.01	.02	.11	.31	.24	.18	.05	1.15		Sum of Means
	Tarkio River Watershed																										
33												.02	.02	.01	.01	.01				.01	.25	.19	.23	.24	.99		33
1															.06						.18	.23	.23	.19	.89		1
36										.03	.02	.01	.02	.01	.10				.01		.26	.32	.15	.19	1.12		36
38									.01	.02	.03		.01	.03	.06		.01	.01		.01	.17	.21	.22	.14	1.13		38
41										.01	.01	.01	.02	.03	.02			.01		.01	.03	.34	.16	.22	.96		41
4											.02	.01	.03	.10	.01		.02	.01		.03	.26	.23	.23	.15	1.12		4
44						.02	.01		.01	.01	.02		.01	.02	.09	.02	.01	.01		.05	.09	.43	.14	.21	1.10		44
47		.01				.01		.01	.01	.01	.01			.05	.03	.02	.01	.02		.04	.06	.22	.11	.06	.72		47
Sums		.01				.03	.01	.01	.03	.08	.11	.05	.10	.30	.43	.02	.05	.06	.01	.15	1.38	2.01	.47	1.40	8.03		Sums
																										1.00	Mean of Sums
Means										.01	.01	.01	.01	.04	.05		.01	.01		.02	.14	.30	.13	.18	.99		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates
OBSERVATION October 9 & 20, 1939 DATA Hourly precipitation from recording gages.

DATE / Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE / Sta. No.
										Stations listed in each watershed by location North to South.																	
										West Tarkio Creek Watershed																	
	October 9, 1939																										
22	.07	.10	.02	.17	.07			.02																	.45		22
20	.06	.05		.15				.05																	.31		20
16	.05	.04	.10	.16				.01																	.36		16
9	.01		.14	.01					.06																.22		9
21	.01		.10	.04				.04	(Mis. by Interpolation)																.19		21
23	.02		.03	.06																					.16		23
Sums	.22	.19	.44	.59	.07			.12	.06																1.69		Sums
																									.28		Mean of Sums
Means	.04	.03	.07	.10	.01			.02	.01																.28		Sum of Means
										Tarkio River Watershed																	
33	.12	.02	.05	.20	.13																				.52		33
1	.06	.08	.01	.25	.02			.04																	.76		1
36	.07	.05	.03	.17																					.32		36
38	.05	.06	.04	.22		.01																			.33		38
41	.02	.03		.06	.01	.01		.02																	.15		41
4	.02		.02	.14																					.18		4
44	.04	.02		.07	.02	.04		.02																	.18		44
47	.04			.20	.01			.01																	.26		47
Sums	.42	.21	.15	1.31	.19	.03		.09																	2.40		Sums
																									.30		Mean of Sums
Means	.05	.03	.02	.16	.02			.01																	.29		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

DATE / Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE / Sta. No.
										West Tarkio Creek Watershed																	
	October 20, 1939																										
22											.01	.01													.02		22
20										.01															.01		20
16																											16
9																											9
21																											21
23																											23
Sums										.01	.01	.01													.03		Sums
Means																											Means
										Tarkio River Watershed																	
33											.01	.03													.04		33
1												.02													.02		1
36										.02	.01														.03		36
38											.02														.02		38
41																											41
4																											4
44																											44
47																											47
Sums										.02	.04	.05													.11		Sums
																									.01		Mean of Sums
Means												.01													.01		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

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Checked by: E.S.
Final check by: E.S.

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Date October 26, 1939 DATA Hourly precipitation from recording gages.

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
Stations listed in each watershed by location North to South.																											
West Turkio Creek Watershed																											
22																	.02								.02		22
20																											20
16																											16
9																											9
21																											21
23																											23
Sums																	.02								.02		Sums
																											Mean of Sums
Means																											Sum of Means
Turkio River Watershed																											
33																			.02						.02		33
1																		.04							.04		1
36																		.11							.11		36
38																											38
41																											41
4																											4
44																											44
47																											47
Sums																		.15	.02						.17		Sums
																									.02		Mean of Sums
Means																		.02							.02		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	DATE
Hourly precipitation from recording gages No. 29 & No. 48 for October, 1939																											
Station No. 29																											
4																					.02				.02		4
8									.01	.03	.01	.04	.02	.11	.03		.01		.01	.05	.31	.26	.19	.13	1.21		8
9	.03	.04	.04	.29	.01																				.41		9
																									1.64		Sums
Station No. 28																											
4																						.04	.01		.05		4
8										.02	.03			.01	.09	.05			.01		.04	.31	.31	.21	1.08		8
9	.16	.04	.01	.01	.19																				.41		9
																									1.54		Sums
SUMS																											SUMS
MEANS																											MEANS

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates November 1 - 30, 1939 DATA Hourly precipitation from recording gages.

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
	Stations listed in each watershed by location North to South																										
	West Tarkio Creek Watershed																										
	November 9, 1939																										
22																.03	.03	.01							.12		22
20																.02									.02		20
16																											16
9																		.01		.01					.02		9
21																		.05	.01	.01					.07		21
23																	.04	.10	.02	.01	.01	.01			.19		23
Sums																.10	.07	.17	.03	.03	.01	.01			.42		Sums
																									.07		Mean of Sums
Means																.02	.01	.03							.06		Sum of Means
	Tarkio River Watershed																										
33																.03	.01								.04		33
1																	.04								.04		1
36																.02	.01								.03		36
38																	.07								.07		38
41																		.02							.02		41
4															.01	.01									.02		4
44															.02	.01		.05	.04		.04				.16		44
47															.03	.01	.06	.09	.04	.02	.02				.27		47
Sums															.06	.08	.19	.16	.08	.02	.06				.65		Sums
																									.03		Mean of Sums
Means															.01	.01	.02	.02	.01		.01				.08		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
	West Tarkio Creek Watershed																										
	November 30, 1939																										
22															.02	.03	.03	.04	.04	.01	.01	.05	.03	.03	.29		22
20															.05	.03	.03	.07	.04	.01	.06	.02	.06	.08	.43		20
16																.02	.07	.10	.05	.01	.01	.02	.01	.02	.31		16
9															.01	.05	.05	.12	.06	.01					.30		9
21															.06	.04	.05	.05	.05					.01	.26		21
23														.03	.04	.03	.09	.05					.01	.01	.26		23
Sums														.03	.18	.20	.32	.43	.24	.04	.06	.09	.11	.15	1.85		Sums
																									.31		Mean of Sums
Means															.03	.03	.05	.07	.04	.01	.01	.02	.02	.02	.30		Sum of Means
	Tarkio River Watershed																										
33																.01	.02	.01	.02	.01		.03	.03	.02	.15		33
1																.01	.01	.02	.05	.01		.05	.02	.02	.19		1
36															.01	.01	.02	.02	.07	.02		.06	.02	.04	.26		36
38															.02	.04	.02	.07	.04	.02	.04	.01	.04	.03	.33		38
41																.04	.03	.08	.05	.01	.01	.01	.01	.01	.25		41
4														.04		.02	.08	.10	.09		.01		.01	.01	.36		4
44															.03	.02	.07	.08	.08	.01		.01			.30		44
47															.04	.04	.08	.11	.06	.01	.01				.35		47
Sums														.04	.10	.19	.33	.49	.46	.08	.07	.17	.13	.13	2.19		Sums
																									.27		Mean of Sums
Means															.01	.02	.04	.06	.06	.01	.01	.02	.02	.02	.27		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Form SCS-376

Project SCS-Ia.-1
Shenandoah, Iowa

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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Final check by F.S.

CLIMATIC DATA SHEET

STATIONS # 29 & #43 For November, 1939 DATA Hourly precipitation for Stations #29 & #43

Station No. 29

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
7	This Floattype gage abandoned for the Winter on this date																										7
SUMS																											SUMS
MEANS																											MEANS

Station No. 48

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
9																.01	.01								.02		9
30															.01	.03	.07	.11	.06	.02	.01	.01		.02	.32		30
SUMS																											SUMS
MEANS																											MEANS

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Final check by: E.S.

Form SCS-316

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Date December 1, 1939 DATA Hourly precipitation from recording gages.

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
Stations listed in each watershed by location North to South.																											
West Tarkio Creek Watershed																											
22	.04	.01	.01	.04	.01			.02								.01	.02	.01							.17		22
20	.04	.01	.01	.06													.02								.14		20
16	.01	.02		.02	.03	.01												.01							.10		16
9		.02	.01	.02	.02	.01														.01	.02				.11		9
21	.02	.01	.01	.01	.02														.01	.01					.09		21
23	.02		.02	.01														.01	.02				.01		.09		23
Sums	.13	.07	.06	.16	.03	.02		.02								.01	.04	.03	.03	.02	.02		.01		.70		Sums
																									.12		Mean of Sums
Means	.02	.01	.01	.03	.01												.01								.09		Sum of Means
Tarkio River Watershed																											
33	.03	.02	.02	.02	.03	.01												.02			.02				.17		33
1	.06	.01	.01	.02	.04													.01							.15		1
36	.04	.02		.01	.05	.02												.01	.01		.01				.17		36
38	.03	.01		.02	.03												.01	.01			.01				.12		38
41	.01			.01	.03	.02	.01																		.08		41
4	.01			.04	.05	.02													.01						.13		4
44	.02			.01	.04	.03												.01	.01	.02	.01				.15		44
47	.01	.01	.01	.01	.01					.01										.01	.01	.01			.09		47
Sums	.21	.07	.04	.14	.28	.10	.01			.01							.01	.06	.03	.03	.06	.01			1.06		Sums
																									.13		Mean of Sums
Means	.03	.02		.02	.04	.01												.01			.01				.13		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	DATE
SUMS																											SUMS
MEANS																											MEANS

Form SCS-370

Project No. SCS-IA-1
Shenandoah, Iowa.

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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Checked by: W.S.
Computed by: W.S.
Checked by: E.S.
Final check by: E.S.

CLIMATIC DATA SHEET

Dates December 23 & 24, 1939 DATA Hourly precipitation from recording gages.

Stations listed in each watershed by location North to South.

West Tarkio Creek Watershed.

December 23, 1939

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
22												.03	.07	.03	.02	.02	.02	.04	.01	.01	.01	.01			.27		22
20												.01	.02	.01				.02							.06		20
16													.01	.01	.01	.01	.01	.01							.06		16
9														.01	.01	.01			.01	.01	.01		.01		.07		9
21														.01	.01					.01	.01	.01			.05		21
23														.02	.03	.01		.01	.01	.01	.01	.01			.11		23
Sums												.04	.10	.09	.08	.05	.03	.08	.03	.04	.04	.03	.01		.62		Sums
																									.10		Mean of Sums
Means												.01	.02	.02	.01	.01		.01		.01	.01				.10		Sum of Means

Tarkio River Watershed

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
33													.01	.02	.02	.01	.02	.02							.10		33
1														.05	.05	.02	.02	.01	.01	.02					.18		1
36												.02	.03	.03	.02			.01	.02						.13		36
38												.02	.02	.04	.04	.03	.02	.03	.04			.03			.34		38
41												.01	.01	.01	.01	.01									.05		41
4												.02			.01	.01	.01	.02	.01		.01	.01			.10		4
44													.01	.02	.02	.03	.01	.01	.05	.01	.02	.02	.01	.01	.22		44
47												.01	.02	.01	.02	.02	.01	.01	.02	.01	.01	.03			.16		47
Sums												.08	.12	.18	.19	.12	.09	.11	.15	.04	.04	.09	.01	.01	1.28		Sums
																									.16		Mean of Sums
Means												.01	.02	.02	.02	.02	.01	.01	.02			.01			.16		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

West Tarkio Creek Watershed

December 24, 1939

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
22																											22
20																											20
16																											16
9											.01	.02													.03		9
21												.01	.01												.02		21
23											.01	.02													.03		23
Sums											.02	.05	.01												.08		Sums
																									.01		Mean of Sums
Means												.01													.01		Sum of Means

Tarkio River Watershed

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
33																											33
1																											1
36																											36
38																											38
41																											41
4				.01	.01	.01																			.03		4
44													.01		.01										.02		44
47																											47
Sums				.01	.01	.01							.01		.01										.05		Sums
																									.01		Mean of Sums
Means																											Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Form SCS-376

Project No. SCS-IA-1
Shenandoah, Iowa.

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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Computed by: W.S.
Checked by: W.S.
Final check by: E.S.

CLIMATIC DATA SHEET

Dates December 26 & 27, 1939 DATA Hourly precipitation from recording gages.

Stations listed in each watershed by location North to South.

West Tarkio Creek Watershed

December 26, 1939

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
22							.06	.08	.05	.06	.03	.02	.01	.01			.01	.01					.01		.3[illegible]		22
20								.04	.02	.04	.02	.01													.13		20
16								.03	.02	.01	.02	.03	.02												.15		16
9								.02	.01	.01	.02													.01	.07		9
21								.01	.02	.01				.01				.01						.01	.07		21
23								.02	.02		.02	.02	.01	.01		.02									.12		23
Sums							.06	.20	.14	.13	.11	.08	.04	.03		.02	.01	.02					.01	.02	.87		Sums
																									.14		Mean of Sums
Means							.01	.03	.02	.02	.02	.01	.01												.12		Sum of Means

Tarkio River Watershed

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
33							.01	.03	.04	.05	.02	.01	.01												.17		33
1									.11	.05	.02	.03	.02	.01											.24		1
36								.02	.03	.03	.02	.01													.11		36
38								.03	.04	.04	.06	.04	.02												.23		38
41								.01	.02	.02	.02	.01													.08		41
4								.04		.04	.04	.07													.19		4
44								.01	.01	.02	.02			.01	.01									.01	.09		44
47								.02	.02	.02					.01	.01								.01	.09		47
Sums							.01	.16	.27	.27	.25	.17	.05	.02	.02	.01								.02	1.22		Sums
																									.16		Mean of Sums
Means								.02	.03	.03	.03	.02	.01												.14		Sum of Means

West Tarkio Creek Watershed

December 27, 1939

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
22		.03	.02	.02		.02	.01	.01																	.11		22
20		.02	.02	.01																					.05		20
16		.02	.01	.01	.01	.01	.01	.01	.01																.09		16
9		.01		.01				.01				.01													.04		9
21	.01	.01		.01		.01		.01				.01													.06		21
23	.01	.02	.01			.01	.01	.01		.01															.08		23
Sums	.02	.11	.06	.05	.01	.05	.03	.05	.01	.01		.02													.43		Sums
																									.07		Mean of Sums
Means		.02	.01	.01		.01		.01																	.06		Sum of Means

Tarkio River Watershed

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
33		.02	.01	.01	.01	.01		.01																	.07		33
1		.01	.02	.01	.01	.02			.01	.02															.10		1
36			.01	.02	.02					.01	.01														.07		36
38			.02	.02	.02	.01																			.07		38
41		.02	.02	.01																					.05		41
4												.02	.04						.02						.08		4
44		.02	.01	.01		.01		.01		.01		.01													.08		44
47		.02	.01	.01						.01		.01													.06		47
Sums		.09	.10	.09	.06	.05		.02	.01	.05	.01	.04	.04						.02						.58		Sums
																									.07		Mean of Sums
Means		.01	.01	.01	.01	.01				.01															.06		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Form SCS—326

Project No. Ia.-1
Shenandoah, Iowa

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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Final check by E.S.

CLIMATIC DATA SHEET

Date December 31, 1939 DATA Hourly precipitation from recording gages.

Station No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Station No.
	Stations listed in each Watershed by location North to South.																										
	West Tarkio Creek Watershed																										
22								.01	.01	.02														.04	.03		22
20									.02	.01														.02	.03		20
16											.02													.01	.03		16
9											.02														.02		9
21										.01	.02													.01	.04		21
23											.01	.02													.03		23
Sums								.01	.03	.04	.07	.02												.08	.25		Sums
																									.04		Mean of sums
Means										.01	.01													.01	.03		Sum of means
	Tarkio River Watershed																										
33											.02														.02		33
1								.01	.01	.02	(Distributed by Interpolation)													.04	.08		1
36									.01	.01														.02	.05		36
38									.01	.01	.01													.01	.04		38
41									.01	.01	.01													.01	.04		41
4										.02	.01														.03		4
44											.01	.02												.01	.04		44
47										.01	.01	.02													.03		47
Sums								.01	.04	.08	.07	.03												.11	.34		Sums
																									.04		Mean of sums
Means										.01	.01													.01	.03		Sum of means
SUMS																											SUMS
MEANS																											MEANS

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
SUMS																											SUMS
MEANS																											MEANS

Form SCS-376

Project No. Ia.-1
Shenandoah, Iowa

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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CLIMATIC DATA SHEET

Sheet 03 of 03 Sheets

Date ~~Xxxxx~~ #48 for December, 1939 DATA Hourly precipitation for Station #48.

Station No. 48 for December, 1939

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	DATE
1	.01	.02		.02	.04															.01	.01				.11		1
23												.01	.01	.01	.01	.01			.01	.01			.01		.08		23
24			.01			.01																			.02		24
26							.01	.01	.01	.01	.01	.01					.02								.07		26
27	.01						.01																		.02		27
31										.01	.01	.01												.01	.04		31
																									.34		
SUMS																											SUMS
MEANS																											MEANS

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	DATE
SUMS																											SUMS
MEANS																											MEANS

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Sheet 1 of 43 sheets

Project No. SCS-1A-1
Shenandoah, Iowa.

Dates January 1 & 3, 1940 — DATA Hourly precipitation from recording gages.

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID T	SUM	MEAN	Sta. No.
	Stations listed in each watershed by location North to South																										
	West Tarkio Creek Watershed																										
	January 1, 1940																										
22		.01																							.01		22
20																											20
16																											16
9																											9
21																											21
23	.01					.01																			.02		23
Sums	.01	.01				.01																			.03		Sums
																											Mean of Sums
Means																											Sum of Means
	Tarkio River Watershed																										
33	.02	.01																							.03		33
1		.01																							.01		1
36	.01																								.01		36
38																											38
41																											41
4																											4
44	.02																								.02		44
47																											47
Sums	.05	.02																							.07		Sums
																									.01		Mean of Sums
Means	.01																								.01		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID T	SUM	MEAN	Sta. No.
	West Tarkio Creek Watershed																										
	January 3, 1940																										
22												.01	.01												.02		22
20																											20
16							.02			.01															.03		16
9																											9
21																											21
23							.03	.01	.01	.01	.01														.07		23
Sums							.05	.01	.01	.02	.01	.01	.01												.12		Sums
																									.02		Mean of Sums
Means							.01																		.01		Sum of Means
	Tarkio River Watershed																										
33																											33
1																											1
36																											36
38																											38
41																											41
4								.01	.01	.01	.01	.02										.01			.07		4
44																											44
47																											47
Sums								.01	.01	.01	.01	.02										.01			.07		Sums
																									.01		Mean of Sums
Means																											Sum of Means
SUMS																											SUMS
MEANS																											MEANS

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates ~~STATION~~ January 6 & 7, 1940 DATA Hourly precipitation from recording gages.

Sta. No. (DATE)	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No. (DATE)
	Stations listed in each watershed by location North to South																										
	West Tarkio Creek Watershed																										
	January 6, 1940																										
22																				.05	.03	.03	.03	.03	.17		22
20																				.01	.01	.04	.02	.01	.09		20
16																				.02	.03	.04	.02	.02	.13		16
9																			.02	.03	.02	.02	.02	.02	.13		9
21																		.01	.03	.02	.03	.03	.02	.02	.16		21
23																.01	.04	.04	.04	.03	.04	.03	.02	.03	.28		23
Sums																.01	.04	.05	.09	.16	.16	.19	.13	.13	.96		Sums
																									.16		Mean of Sums
Means																	.01	.01	.02	.03	.03	.03	.02	.02	.17		Sum of Means
	Tarkio River Watershed																										
33													(Dist. by Interpolation)							.02	.02	.02	.01	.01	.08		33
1																				.04	.03	.03	.03	.04	.17		1
36													(Dist. by Interpolation)							.03	.02	.03	.02	.02	.12		36
38																				.01	.04	.05	.04	.02	.16		38
41																					.01	.03	.02	.01	.07		41
4																				.02	.02	.03	.03	.02	.12		4
44																				.03	.03	.02	.03	.04	.15		44
47																			.03	.04	.04	.04	.04	.03	.22		47
Sums																			.03	.19	.21	.25	.22	.19	1.09		Sums
																									.14		Mean of Sums
Means																				.02	.03	.03	.03	.02	.13		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Sta. No. (DATE)	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No. (DATE)
	West Tarkio Creek Watershed																										
	January 7, 1940																										
22	.03	.04	.02	.02	.01	.02	.01		.01	.01		.01													.18		22
20	.01		.01			.01				.01				.01											.05		20
16	.01	.02		.01	.01	.01		.01			.01	.01													.09		16
9	.02	.01		.01		.01																			.05		9
21	.01	.01	.01																						.03		21
23	.03	.01	.01	.03	.03																				.11		23
Sums	.11	.09	.05	.07	.05	.05	.01	.01	.01	.02	.01	.02		.01											.51		Sums
																									.08		Mean of Sums
Means	.02	.02	.01	.01	.01	.01																			.08		Sum of Means
	Tarkio River Watershed																										
33	.01	.01	.01	.01	(Dist. by Interpolation)																				.04		33
1	.03	.02	.02	.02	.01		.01	.01	.01	.01															.14		1
36	.02	.01	.01	.01		.01						.01	(Dist. by Interpolation)												.07		36
38	.03	.02	.04	.01	.01	.01	.01	.01				.02													.16		38
41	.01	.01		.01									.02												.05		41
4	.01	.02	.01	.01	.01	.01	.01	.01																	.09		4
44	.03	.02	.04	.02	.02	.01						.01													.15		44
47	.03	.03	.01	.02	.02	.01																			.12		47
Sums	.17	.14	.14	.11	.07	.05	.03	.03	.01	.01		.04	.02												.82		Sums
																									.10		Mean of Sums
Means	.02	.02	.02	.01	.01	.01																			.09		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

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Form SCS-326

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-1A-1
Shenandoah, Iowa.

Dates January 13 & 14, 1940 DATA Hourly precipitation from recording gages.

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
	Stations listed in each watershed by location North to South.																										
	West Tarkio Creek Watershed																										
	January 13, 1940																										
22									.04	.03	.05	.02	.03	.02	.05	.01		.02				.02	.01	.02	.33		22
20									.02	.01	.02		.01	.01	.02	.01								.02	.12		20
16									.01	.03	.03	.03	.01	.03	.03	.02	.01					.01	.01	.01	.23		16
9									.02	.02	.02	.01	.02	.01	.03	.04	.01	.01		.01	.01		.01		.22		9
21								.01	.02	.02	.02	.02	.01	.02	.05		.01			.01		.01		.01	.21		21
23								.01	.02	.04	.02	.02	.02	.03	.04	.01		.01		.02				.02	.25		23
Sums								.02	.13	.15	.17	.10	.10	.12	.22	.09	.03	.04		.03	.01	.05	.03	.07	1.36		Sums
																									.23		Mean of Sums
Means									.02	.02	.03	.02	.02	.02	.04	.02		.01				.01		.01	.22		Sum of Means
	Tarkio River Watershed																										
33										.03	.05	.02	.01	.02	.03	.02	.01	.01	.01			.02	.01	.01	.30		33
1			(Dist. by Interpolation)							.02	.02	.01	.01	.01	.01	.01		.01						.02	.12		1
36							.02	.01	.01	.01	.01	.04						.01	.01	.02	.01	.01			.16		36
38									.01	.02	.03	.02	.04	.03	.05	.04		.01		.01	.01	.02	.01	.02	.34		38
41									.01	.01	.01	.01	.01	.01	.01	.05	.01					.02	.01	.03	.19		41
4									.01	.02	.01	.02	.04	.02	.05	.03	.02	.01		.01	.01	.02	.01		.33		4
44									.01	.04	.05	.02	.03	.03	.13	.02	.02					.02	.01	.02	.40		44
47									.01	.04	.04	.02	.02	.03	.06	.02	.01	.01			.02	.01	.01	.01	.33		47
Sums							.02	.01	.06	.21	.22	.16	.16	.15	.41	.24	.07	.04	.02	.04	.05	.12	.06	.11	2.17		Sums
																									.27		
SUMS									.01	.03	.03	.02	.02	.02	.05	.03	.01	.01			.01	.02	.01	.01	.29		SUMS
MEANS																											MEANS

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
	West Tarkio Creek Watershed																										
	January 14, 1940																										
22	.02																								.02		22
20	.01		.01																						.02		20
16																											16
9	.01																								.01		9
21																											21
23		.01																							.01		23
Sums	.04	.01	.01																						.06		Sums
																									.01		Mean of Sums
Means	.01																								.01		Sum of Means
	Tarkio River Watershed																										
33	.01																								.01		33
1																											1
36																											36
38	.03	.01																							.04		38
41	.01																								.01		41
4	.01		.01			.01		.01		.01	.01		.01												.07		4
44	.02																								.02		44
47	.01																								.01		47
Sums	.09	.01	.01			.01		.01		.01	.01		.01												.16		Sums
																									.02		Mean of Sums
Means	.01																								.01		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates January 17 & 18, 1940 DATA Hourly precipitation from recording gages.

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta.No.
	Stations listed in each watershed by location North to South.																										
	West Tarkio Creek Watershed.																										
	January 17, 1940																										
22										.01	.02		.01			.01			.01						.06		22
20												.01				.01				.01				.01	.04		20
16												.01				.01				.01		.01		.01	.05		16
9										.01		.01				.01		.01							.04		9
21						.01				.01				.01				.01							.04		21
23														.01		.01		.01				.01			.04		23
Sums						.01				.03	.02	.03	.01	.02		.05		.03	.01	.02		.02		.02	.27		Sums
																									.04		Mean of Sums
Means																.01									.01		Sum of Means
	Tarkio River Watershed																										
33										.01	.01			.01 (Dist. by Interpolation)											.03		33
1																	.01	.01				.01		.01	.04		1
36																		.01		.01		.01		.01	.04		36
38										.01	.01	.01		.01		.01		.01		.01		.01		.01	.08		38
41												.01		.01		.01		.01		.01				.01	.06		41
4								.01	.01	.01								.02							.05		4
44										.01		.01		.01		.01		.01		.01					.06		44
47														.01		.01		.01		.01				.01	.05		47
Sums								.01	.01	.04	.02	.03		.05		.04	.01	.08		.05		.03		.05	.42		Sums
																									.05		Mean of Sums
Means														.01				.01		.01				.01	.04		Sum of Means

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta.No.
	West Tarkio Creek Watershed																										
	January 18, 1940																										
22																											22
20																											20
16																											16
9																											9
21																											21
23																											23
Sums																											Sums
																											Mean of Sums
Means																											Sum of Means
	Tarkio River Watershed																										
33																											33
1	.01	.02																							.02		1
36																											36
38																											38
41																											41
4																											4
44																											44
47																											47
Sums	.01	.02																							.02		Sums
																											Mean of Sums
																											Sum of Means

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

STATION No. 43, for January, 1940 DATA Hourly precipitation for Station No. 43.

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MIDN	SUM	MEAN	DATE
1				.01	.01	.01																			.03		1
3						.01	.01	.01	.01	.01															.05		3
6																				.01	.02	.02	.02	.03	.10		6
7	.01	.01	.01			.01																			.04		7
8															.02										.02		8
12																						.01	.01	.01	.03		12
13	.01	.01	.01	.01	.01	.01								.01											.07		13
17										.01						.01								.01	.03		17
18						.01																			.01		18
SUMS	.02	.02	.02	.02	.02	.05	.01	.01	.01	.02				.01	.02	.01				.01	.02	.03	.03	.05	.38		SUMS
MEANS																											MEANS

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MIDN	SUM	MEAN	DATE
SUMS																											SUMS
MEANS																											MEANS

Form SCS-376

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Checked by: W.S.
Final check by: L.S.

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Sheet 6 of 13 Sheets

Dates February 3 & 4, 1940 DATA Hourly precipitation from recording gages.

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
	Stations listed in order, arranged by location North to South.																										
	West Tarkio Creek Watershed																										
	February 3, 1940																										
22										.02	.03	.01	.01					.01	.03	.01			.01	.01	.14		22
20										.04	.05	.02	.01		.01			.01	.04	.02		.01		.01	.22		20
16										.01	.02	.02	.01	.01	.01	.01			.01						.10		16
9										.04	.06	.03	.01	.01		.01		.01	.02	.01					.20		9
21										.04	.04	.02		.01		.01			.05						.17		21
23										.05	.06	.02	.03	.01	.01	.01		.01		.02					.20		23
Sums										.20	.26	.12	.05	.04	.03	.04		.04	.15	.06		.01	.01	.02	1.02		Sums
																									.17		Mean of Sums
Means										.03	.04	.02	.01	.01		.02		.01	.02	.01					.16		Sum of Means
	Tarkio River Watershed																										
33											.01	.02	.02	.01						.01	.02				.09		33
1											.03	.02	.01	.02				.01		.03	.01				.12		1
36									.02	.03	.02	.02			.01			.02		.01		.01	.02		.12		36
38										.02	.04	.02	.01	.02		.03			.03	.01				.01	.16		38
41												.01				.01				.01				.01	.04		41
4										.01	.02	.04	.01	.01		.01		.01	.01	.04					.13		4
44												.01		.01		.01		.01		.01				.01	.06		44
47										.02	.03	.02		.02				.01	.01						.10		47
Sums									.02	.03	.15	.16	.05	.06	.01	.04		.07	.05	.09	.03	.01	.02	.03	.87		Sums
																									.11		Mean of Sums
										.01	.02	.02	.01	.01				.01	.01	.01					.10		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
	West Tarkio Creek Watershed																										
	February 4, 1940																										
22	.01																								.01		22
20	.02																								.02		20
16																											16
9																											9
21																											21
23																											23
Sums	.03																								.03		Sums
																											Mean of Sums
Means																											Sum of Means
	Tarkio River Watershed																										
33	.01			.01																					.02		33
1	.01	.01		.01																					.03		1
36																											36
38		.01																							.01		38
41		.01																							.01		41
4																											4
44				.01																					.01		44
47																											47
Sums	.02	.03		.03																					.08		Sums
																									.01		Mean of Sums
Means																											Sum of Means
SUMS																											SUMS
MEANS																											MEANS

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates February 8 & 9, 1940 DATA Hourly precipitation from recording gages.

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
Stations listed in each watershed by location North to South.																											
West Tarkio Creek Watershed																											
February 8, 1940																											
22									.01	.02	.01	.02	.03	.03	.03	.01	.02	.01	.01			.01			.21		22
20							.01		.01		.01		.01		.01		.01		.01		.01				.03		20
16									.01	.01	.01	.02	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.16		16
9										.01				.01	.02	.01	.01	.01	.01	.01		.01			.10		9
21										.02			.01	.01	.01	.01	.03	.01	.01	.01		.01	.01	.02	.13		21
23				.01	.01	.01	.01			.01	.01		.03	.01	.02	.02	.02	.03	.01	.01			.01		.20		23
Sums				.01	.01	.01	.02		.03	.06	.04	.03	.09	.07	.10	.06	.08	.05	.06	.04	.02	.04	.03	.03	.68		Sums
																									.15		Mean of Sums
Means										.01	.01		.02	.01	.02	.01	.01	.01	.01	.01		.01				.13		Sum of Means
Tarkio River Watershed																											
33										.01		.02	.02	.01	.01	.01	.02	.01		.01		.01			.13		33
1										.03	.01	.03	.02	.02	.01	.02	.04	.02	.01	.01	.02		.01		.25		1
36								.02		.01		.01		.01		.01		.01		.01					.08		36
38								.02	.02	.01	.01	.01	.01	.01	.02	.03	.02	.01	.02	.01	.01	.01	.01	.01	.25		38
41										.01				.01	.02	.01	.01	.01		.01		.02		.01	.10		41
4										.01	.01	.01	.02		.03	.02	.03	.01	.01	.01		.01	.01		.18		4
44								.01	.02	.01		.03	.03	.02	.03	.05	.02	.02	.01	.01	.01	.01	.01	.01	.30		44
47						.02	.01			.01	.02	.02	.05	.02	.03	.04	.03		.01	.01				.01	.23		47
Sums						.02	.01	.05	.04	.10	.06	.13	.15	.10	.16	.19	.17	.09	.06	.06	.04	.05	.04	.04	1.57		Sums
																									.06		Mean of Sums
Means								.01		.01	.01	.02	.02	.01	.02	.02	.02	.01	.01	.01		.01			.16		Sum of Means
SUMS																											
MEANS																											

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
West Tarkio Creek Watershed																											
February 9, 1940																											
22																											22
20																											20
16		.01																							.01		16
9																											9
21																											21
23	.01																								.01		23
Sums	.01	.01																							.02		Sums
																											Mean of Sums
Means																											Sum of Means
Tarkio River Watershed																											
33																											33
1																											1
36																											36
38	.01																								.01		38
41																											41
4	.01	.01																							.02		4
44	.03	.01																							.04		44
47	.01			.01																					.02		47
Sums	.06	.02		.01																					.09		Sums
																									.01		Mean of Sums
Means	.01																								.01		Sum of Means
SUMS																											
MEANS																											

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Sheet 8 of 43 Sheets

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates February 16 & 17, 1940 DATA Hourly precipitation from recording gages.

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
Stations listed in each watershed by locations North to South.																											
West Tarkio Creek Watershed																											
February 16, 1940																											
22																					.03	.03	.05	.02	.13		22
20																					.02	.04	.02		.08		20
16																				.01	.03	.05	.02		.11		16
9																					.06	.05	.03	.01	.15		9
21																					.06	.05	.02		.13		21
23																		.01		.06	.07	.03		.01	.18		23
Sums																		.01		.07	.27	.25	.14	.04	.78		Sums
																									.13		Mean of Sums
Means																				.01	.04	.04	.02	.01	.12		Sum of Means
Tarkio Creek Watershed																											
33																					.01	.02	.02	.04	.09		33
1																						.01	.05	.04	.10		1
36																				.02	.03	.05		.01	.11		36
38																				.01	.03	.03	.02	.01	.14		38
41																				.01	.07	.04	.01		.13		41
4								.01													.03	.06	.05		.15		4
44																					.05	.07	.04	.01	.17		44
47																				.03	.03	.03	.01		.15		47
Sums								.01												.07	.30	.31	.24	.11	1.04		Sums
																									.13		Mean of Sums
Means																				.01	.04	.04	.03	.01	.13		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
West Tarkio Creek Watershed																											
February 17, 1940																											
22	.01	.02	.02	.01	.01	.01	.01				.01			.01											.11		22
20						.01	.01					.01													.03		20
16	.01		.01	.03	.01	.01	.01																		.08		16
9	.01	.01	.01	.02																					.05		9
21	.01	.01	.03	.02																					.07		21
23		.03				.01		.01				.01													.05		23
Sums	.04	.06	.07	.08	.02	.04	.03	.01			.01	.02		.01											.39		Sums
																									.06		Mean of Sums
Means	.01	.01	.01	.01		.01																			.05		Sum of Means
Tarkio River Watershed																											
33	.02	.01	.01	.01	.01	.01						.01	.01	.01											.10		33
1		.01	.02	.01			.01	.01	.01		.01		.01												.09		1
36	.01	.02		.01		.01				.01		.02		.01											.09		36
38		.02	.02	.01	.01			.01																	.07		38
41	.01	.02	.02		.01																				.06		41
4	.01	.02			.02	.01																			.06		4
44	.01	.01	.01			.01																			.04		44
47	.01	.02		.01	.01																				.05		47
Sums	.07	.13	.09	.05	.06	.04	.01	.02	.01	.01	.01	.03	.02	.02											.56		Sums
																									.07		Mean of Sums
Means	.01	.02	.01	.01	.01																				.06		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates February 19 & 20, 1940 DATA Hourly precipitation from recording gages.

Stations listed in each watershed by location North to South.

West Tarkio Creek Watershed

February 19, 1940

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta.No.
22							.01	.01	.01	.02	.01	.01	.01	.01		.01	.01	.01	.01	.01		.01			.15		22
20																											20
16									.01	.02	.01	.01						.01	.01	.01		.01		.01	.10		16
9														.01				.01							.02		9
21												.01				.01		.01		.01		.01			.05		21
23								.01	.01	.01		.01													.04		23
Sums							.01	.02	.03	.05	.02	.04	.01	.02		.02	.01	.04	.02	.03		.03		.01	.36		Sums
																									.06		Mean of Sums
Means										.01		.01						.01							.03		Sum of Means

Tarkio River Watershed

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta.No.
33								.01		.01		.01		.01		.01	.01	.01		.01	.01	.01		.02	.12		33
1										.02	.01	.01	.01	.01	.01	.01	.02	.02	.03	.01	.02		.01		.19		1
36								.01	.01		.01			.01		.01		.01							.06		36
38									.02	.01	.02	.01	.01	.01	.01	.01		.01	.01	.01	.02			.01	.16		38
41									.01	.01	.01			.01		.01		.01		.01		.01		.01	.09		41
4											.02		.01		.01	.01	.01					.01			.07		4
44										.01	.01	.01	.01	.01	.01	.01	.02	.01							.10		44
47											.01		.01		.01		.01								.04		47
Sums								.02	.04	.06	.09	.04	.05	.06	.05	.07	.07	.07	.04	.04	.05	.03	.01	.04	.83		Sums
																									.10		Mean of Sums
Means										.01	.01		.01	.01	.01	.01	.01	.01			.01				.09		Sum of Means

West Tarkio Creek Watershed

February 20, 1940

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta.No.
22					.01		.01												.01	.02	.01		.02	.02	.10		22
20																		.01		.01		.01	.01	.01	.05		20
16																						.01	.01	.01	.03		16
9																								.01	.01		9
21																							.01	.01	.02		21
23																				.01		.01		.01	.03		23
Sums					.01		.01											.01	.01	.04	.01	.03	.05	.07	.24		Sums
																									.04		Mean of Sums
Means																				.01			.01	.01	.03		Sum of Means

Tarkio River Watershed

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta.No.
33	.01																	.01		.01		.01		.01	.05		33
1	.01			.01				.01															.01	.02	.06		1
36		.01				.01				.01												.01	.02	.01	.07		36
38				.01	.01	.01	.01				.01												.01	.02	.08		38
41					.01		.01		.01		.01											.01	.02	.02	.09		41
4			.01				.01					.01				.01			.01						.03		4
44																								.02	.02		44
47																							.02	.01	.03		47
Sums	.02	.01	.01	.02	.02	.02	.03	.01	.01	.01	.02	.01				.01		.01	.01	.01		.03	.08	.11	.45		Sums
																									.06		Mean of Sums
Means																							.01	.01	.02		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates February 21 & 23, 1940 DATA Hourly precipitation from recording gages.

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta.No.
	Stations listed in each watershed by location North to South.																										
	West Tarkio Creek Watershed																										
	February 21, 1940																										
22	.01	.01		.01		.01																			.04		22
20		.01		.01																					.02		20
16	.01	.01	.01	.01																					.04		16
9				.01																					.01		9
21																											21
23		.01		.01																					.02		23
Sums	.02	.04	.01	.05		.01																			.13		Sums
																									.02		Mean of Sums
Means		.01		.01																					.02		Sum of Means
	Tarkio River Watershed																										
33		.01				.01	.01																		.03		33
1		.01				.01				.01															.03		1
36	.01		.01	.01		.01																			.04		36
38	.01			.01		.01																			.03		38
41		.01		.01		.01																			.03		41
4				.01																					.01		4
44		.01				.01																			.02		44
47	.01	.01		.01																					.03		47
Sums	.03	.05	.01	.05		.06	.01			.01															.22		Sums
																									.03		Mean of Sums
Means		.01		.01		.01																			.03		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta.No.
	West Tarkio Creek Watershed																										
	February 23, 1940																										
22										.02	.02	.01	.01	.02	.01	.03	.01	.02	.02						.17		22
20									.01	.04	.04	.03	.04	.04	.04	.04	.02	.01	.01						.32		20
16										.01	.01	.01	.01	.01	.01	.02	.02	.01	.01	.01		.01			.14		16
9									.01	.03	.02	.02	.02	.04	.03	.03	.03	.02	.01	.01					.27		9
21										.01	.01	.03	.02	.03	.03	.03	.02	.02	.01	.01	.01				.23		21
23									.02	.02	.04	.03	.03	.03	.03	.03	.02	.02	.01	.01					.29		23
Sums									.04	.13	.14	.13	.13	.17	.15	.18	.12	.10	.07	.04	.01	.01			1.42		Sums
																									.24		Mean of Sums
Means									.01	.02	.02	.02	.02	.03	.02	.03	.02	.02	.01	.01					.23		Sum of Means
	Tarkio River Watershed																										
33											.02	.02	.01	.01	.01	.01	.02	.01	.02	.02		.01			.15		33
1										.01	.02	.01	.01	.01	.01	.02	.01	.01	.01	.01		.01		.01	.15		1
36											.05	.02	.02	.02	.03	.03	.02	.02	.02						.23		36
38												.01	.02	.01	.02	.02	.02	.01	.01	.02					.14		38
41									.01	.02	.02	.02	.02	.03	.03	.02	.02	.01							.20		41
4										.01	.02	.01	.03	.04	.02	.02	.03	.02	.01	.01					.22		4
44										.01	.02	.03	.02	.02	.02	.02	.02	.02	.02		.01				.20		44
47									.01		.01	.02	.02	.02	.03	.02	.02	.01		.01	.01				.18		47
Sums									.02	.05	.14	.14	.15	.18	.17	.16	.16	.11	.09	.07	.02	.02		.01	1.47		Sums
																									.18		Mean of Sums
Means										.01	.02	.02	.02	.04	.02	.02	.02	.01	.01	.01					.18		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Date ~~Station~~ February 27, 1940 DATA Hourly precipitation from recording gages.

~~Date~~ Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	~~DATE~~ Sta. No.
	Stations listed in each watershed by location North to South.																										
	West Tarkio Creek Watershed																										
22																											22
20																											20
16																											16
9																											9
21																											21
23																											23
Sums																											Sums
																											Mean of Sums
Means																											Sum of Means
	Tarkio River Watershed																										
33																								.03	.03		33
1																											1
36																											36
38																											38
41																											41
4																											4
44																											44
47																											47
Sums																								.03	.03		Sums
																											Mean of Sums
Means																											Sum of Means
SUMS																											SUMS
MEANS																											MEANS

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
SUMS																											SUMS
MEANS																											MEANS

Form SCS-376

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U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

STATION No. 48 for February, 1940 DATA Hourly precipitation from Station No. 48.

Station No. 48 for February 1940.

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID T	SUM	MEAN	DATE
3										.01	.03	.03	.03	.01		.01				.01	.01	.01			.15		3
8											.01		.01		.01		.01		.01		.01				.08		8
9	.01																								.01		9
16																					.01	.05	.05	.02	.13		16
17				.01	.02																				.03		17
19										.01		.01				.01									.03		19
20																								.01	.01		20
21		.01		.01		.01																			.03		21
23										.01	.03	.03	.03	.03	.03	.02	.03	.02	.01	.01					.25		23
SUMS	.01	.01		.02	.02	.01				.03	.07	.07	.07	.04	.04	.04	.04	.02	.02	.02	.03	.06	.06	.04	.72		SUMS
MEANS																											MEANS

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID T	SUM	MEAN	DATE
SUMS																											SUMS
MEANS																											MEANS

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Computed by: W. S.
Checked by: W.S. & E.S.
Final check by: E.S.

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates March 1 & 2, 1940 DATA Hourly precipitation from recording gages.

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta.No.
	Stations listed in each watershed by location North to South.																										
	West Tarkio Creek Watershed																										
	March 1, 1940																										
22																				.07	.01	.02		.03	.13		22
20																					.01		.02	.04	.07		20
16																							.05	.04	.09		16
9																						.01	.02	.10	.13		9
21																					.01	.01	.10	.02	.14		21
23																							.03	.08	.11		23
Sums																				.07	.03	.04	.22	.31	.67		Sums
																									.11		Mean of Sums
Means																				.01		.01	.04	.05	.11		Sum of Means
	Tarkio River Watershed																										
33																					.01	.01		.01	.03		33
1																				.01	.03	.03		.01	.08		1
36																				.03	.01	.01		.05	.10		36
38																			.01	.02	.01	.02	.01	.06	.13		38
41																								.08	.08		41
4																				.01	.01	.01	.01	.12	.16		4
44																					.02		.04	.07	.13		44
47																							.08	.02	.10		47
Sums																			.01	.07	.09	.08	.14	.42	.81		Sums
																									.10		Mean of Sums
Means																				.01	.01	.01	.02	.05	.10		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta.No.
	West Tarkio Creek Watershed																										
	March 2, 1940																										
22	.03	.10	.10	.03	.04	.07	.06	.10	.08																.61		22
20	.08	.09	.02	.02	.03	.02	.07	.05	.02																.40		20
16	.05	.20	.06	.11	.05		.02	.10	[illegible]																.61		16
9	.03	.15	.09	.12	[illegible]	[illegible]	.02	.03	.07	.03	.01														.68		9
21	.15	.03	.13	.17	[illegible]	[illegible]	[illegible]	[illegible]	.04																.71		21
23	.02	.14	.03	.16	.14	.01	.08	.02	.03	.03	.01														.67		23
Sums	.36	.71	.43	.61	.42	.17	.31	.33	.29	.06	[illegible]														3.68		Sums
Means	.06	.12	.07	.10	.07	.03	.05	.05	.04	[illegible]															.61		Mean of Sums
																									.60		Sum of Means
	Tarkio River Watershed																										
33		.01	.13	.04	.06	.08	.11	.12	.09																.64		33
1	.03	.03	.14	.03	.04	[illegible]	.12	.12	.07			.01	.02			.01									.74		1
36	.04	.16	.03	[illegible]	[illegible]	[illegible]	.10	.10																	.62		36
38	.02	.22	.08	.03	[illegible]	.06	[illegible]	[illegible]	[illegible]																.62		38
41	.02	.16	.06	[illegible]	.02	.03	.01	.03	.03	.01															.42		41
4	.02	.27	.06	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]															.76		4
44	.15	.25	.09	.13	[illegible]	[illegible]	.02	.01	[illegible]	.07	.01														.92		44
47	.21	.18	.03	.15	.09	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]															.91		47
Sums	.49	1.28	.67	.59	.55	.42	.43	.51	.40	.19	.01	.01	.02			.01									5.63		Sums
																									.70		Mean of Sums
Means	.06	.16	[illegible]	[illegible]	[illegible]	.05	[illegible]	[illegible]	[illegible]	[illegible]															.68		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates March 3 & 6, 1940 DATA Hourly precipitation from recording gages.

Stations listed in each watershed by location North to South.

West Tarkio Creek Watershed

March 3, 1940

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
22										.04															.04		22
20										.01								.01							.02		20
16										.02															.02		16
9																											9
21																											21
23																											23
Sums										.07								.01							.08		Sums
																									.01		Mean of Sums
Means										.01															.01		Sum of Means

Tarkio River Watershed

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
33											.03	.07													.10		33
1											.01														.01		1
36																											36
38											.02														.02		38
41												.01													.01		41
4																											4
44																											44
47																											47
Sums											.06	.08													.14		Sums
																									.02		Mean of Sums
Means											.01	.01													.02		Sum of Means

March 6, 1940

West Tarkio Creek Watershed

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
22											.01	.05	.03	.02	.03	.03	.03	.01	.03	.03	.03	.02	.01	.01	.34		22
20												.03	.05	.02		.02		.01				.01	.01		.15		20
16														.01	.01	.01	.01	.02	.02	.02	.01	.01	.04	.01	.17		16
9													.05	.04	.02	.01	.02	.01	.02	.02	.01	.01	.01	.01	.23		9
21												.02	.04	.04	.01	.02	.02	.03	.02	.02	.02	.02	.02	.01	.29		21
23												.02	.06	.02	.03	.03	.02	.05	.03	.04	.03	.02	.03		.38		23
Sums											.01	.12	.23	.15	.10	.12	.10	.13	.12	.13	.10	.09	.12	.04	1.56		Sums
																									.26		Mean of Sums
Means												.02	.04	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.01	.27		Sum of Means

Tarkio River Watershed

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
33													.01	.01	.01	.01	.03	.02		.01	.02	.02		.01	.15		33
1														.02	.02	.04	.06	.02	.03		.03	.03	.02	.02	.29		1
36												.03	.04	.01	.03	.02	.02				.01	.01		.01	.18		36
38												.02	.03	.03	.01	.02	.02	.01	.01	.01	.01	.02	.02	.01	.22		38
41														.02	.01		.01	.01	.01	.01	.01	.01	.01	.01	.11		41
4													.09	.09	.03		.03	.03	.01	.03	.01		.01		.33		4
44													.04	.05	.03	.01	.04	.02	.03	.04	.03	.02	.02	.01	.34		44
47												.02	.04	.06	.05	.02	.03	.02	.03	.04	.04	.03	.03	.01	.42		47
Sums												.07	.25	.29	.19	.12	.24	.13	.12	.14	.16	.14	.1	.08	2.04		Sums
																									.26		Mean of Sums
Means												.01	.03	.04	.02	.02	.03	.02	.02	.02	.02	.02	.01	.01	.27		Sum of Means

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates ~~STATION~~ March 7 & 9, 1940 DATA Hourly precipitation from recording gages.

Stations listed in each watershed by location North to South

West Tarkio Creek Watershed

March 7, 1940

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
22		.01		.01						.01		.01					.01	.01							.06		22
20	.01															.02	.02								.05		20
16		.01								.01		.01						.01							.04		16
9				.01					.02		.01			.01		.01	.01	.01							.08		9
21																	.02		.01						.03		21
23								.02	.02	.01		.01				.01	.02	.01							.10		23
Sums	.01	.02		.02				.02	.04	.03	.01	.03		.01		.04	.08	.04	.01						.36		Sums
																									.06		Mean of Sums
Means									.01							.01	.01	.01							.04		Sum of Means

Tarkio River Watershed

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
33		.01				.01										.01	.01		.01						.05		33
1				.01					.01	.01							.01	.01							.05		1
36															.01	.01									.02		36
38																		.02							.02		38
41																.01	.01	.01	.01						.04		41
4								.04				.01													.05		4
44		.01			.01					.01						.01									.04		44
47	.01				.01									.01			.03		.01						.07		47
Sums	.01	.02		.01		.03		.04	.01	.02		.01		.01	.01	.04	.06	.04	.03						.34		Sums
																									.04		Mean of Sums
Means																	.01								.01		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

West Tarkio Creek Watershed

March 9, 1940

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
22				.01	.02			.02		.02		.01													.08		22
20				.01	.02					.01		.01													.05		20
16										.01															.01		16
9				.01								.01													.02		9
21				.01	.01	.01																			.03		21
23				.01		.01		.01																	.03		23
Sums				.05	.05	.02		.03		.04		.03													.22		Sums
																									.04		Mean of Sums
Means				.01	.01					.01															.03		Sum of Means

Tarkio River Watershed

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
33					.01	.02	.01	.01	.01	.01						.02									.09		33
1						.03		.01		.01															.05		1
36				.01	.01			.01																	.03		36
38					.02	.01																			.03		38
41																											41
4						.01																			.01		4
44																											44
47																											47
Sums				.01	.04	.07	.01	.03	.01	.02						.02									.21		Sums
																									.03		Mean of Sums
Means						.01																			.01		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates ~~STATION~~ March 11 & 12, 1940 DATA Hourly precipitation from recording gages.

Stations listed in each watershed by location North to South.

West Tarkio Creek Watershed

March 11, 1940

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta.No.
22														.01	.03										.04		22
20															.01	.01									.02		20
16																											16
9																											9
21																											21
23																											23
Sums														.01	.04	.01									.06		Sums
																									.01		Mean of Sums
Means															.01										.01		Sum of Means

Tarkio River Watershed

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta.No.
33															.01	.01									.02		33
1																.03									.03		1
36															.01										.01		36
38																.01									.01		38
41																											41
4																					.02				.02		4
44																											44
47																											47
Sums															.02	.05					.02				.09		Sums
																									.01		Mean of Sums
Means																.01									.01		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

West Tarkio Creek Watershed

March 12, 1940

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta.No.
22												.01		.04			.06	.06	.08	.03	.01	.04	.01	.03	.37		22
20															.01		.02	.03	.02	.02	.01	.01		.01	.16		20
16																	.02	.04	.07	.02	.02	.03		.01	.21		16
9								.02	.06					.01		.01	.06	.07	.04		.02				.29		9
21				.01			.01	.03	.01							.02	.02	.05	.03	.01	.02	.01			.27		21
23				.01			.07	.05	.08					.01			.04	.02	.04	.02	.02	.02			.38		23
Sums				.02			.08	.15	.15			.01		.06	.01	.03	.22	.32	.28	.10	.10	.11	.01	.05	1.70		Sums
																									.28		Mean of Sums
Means							.01	.02	.02					.01			.04	.05	.05	.02	.02	.02		.01	.27		Sum of Means

Tarkio River Watershed

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta.No.
33														.01	.01		.04	.05	.09	.03	.02	.01	.01	.01	.28		33
1																		.04	.12	.04	.02	.01	.01	.01	.25		1
36												.01		.01		.01	.09	.04	.02	.01		.01			.20		36
38															.01	.01	.01	.10	.03	.04	.02	.01		.01	.24		38
41								.02	.03					.01	.01	.01	.02	.01	.04	.04			.01		.20		41
4		.02			.03	.13	.03	.02	.01			.01					.02								.27		4
44								.06	.09								.04	.01	.06	.03	.03			.01	.33		44
47								.10	.07	.01				.01	.01		.06	.02	.06	.02	.01				.37		47
Sums		.02			.03	.13	.03	.20	.20	.01		.02		.04	.04	.03	.28	.27	.42	.21	.10	.04	.03	.04	2.14		Sums
																									.27		Mean of Sums
Means						.02		.02	.02								.04	.03	.05	.03	.01				.22		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates ~~STATION~~ March 13 & 19, 1940 DATA Hourly precipitation from recording gages.

Stations listed in each watershed by location North to South.

West Tarkio Creek Watershed

March 13, 1940

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta.No.
22	.01			.01						.01			.01		.01										.05		22
20																											20
16		.01																							.01		16
9			.01			.01						.01													.03		9
21		.01		.01							.01														.03		21
23				.01																					.01		23
Sums	.01	.02	.01	.03		.01				.01	.01	.01	.01		.01										.13		Sums
																									.02		Mean of Sums
Means																											Sum of Means

Tarkio River Watershed

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta.No.
33	.01		.01											.01				.01							.04		33
1	.02	.01	.01	.01																					.05		1
36							.01		.01	.03															.05		36
38			.01	.01		.01						.01	.02		.01		.01								.08		38
41	.01	.01	.01	.01																					.04		41
4																											4
44			.01			.01																			.02		44
47		.01	.01	.01																					.03		47
Sums	.04	.03	.06	.04		.02	.01		.01	.03		.01	.02	.01	.01		.01	.01							.31		Sums
																									.04		Mean of Sums
Means			.01																						.01		Sum of Means
~~SUMS~~																											~~SUMS~~
MEANS																											MEANS

West Tarkio Creek Watershed

March 19, 1940

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta.No.
22																.03									.03		22
20																	.03								.03		20
16																	.08								.08		16
9																	.05								.05		9
21																	.07	.01							.08		21
23																	.08								.08		23
Sums																.03	.31	.01							.35		Sums
																									.06		Mean of Sums
Means																	.05								.05		Sum of Means

Tarkio River Watershed

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta.No.
33																	.07								.07		33
1																	.10	.01	.02						.13		1
36																	.05								.05		36
38																	.05								.05		38
41																	.12								.12		41
4																	.03								.03		4
44																	.06	.01							.07		44
47																	.07	.01							.08		47
Sums																	.55	.02	.02						.60		Sums
																									.08		Mean of Sums
Means																	.07								.07		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

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Final check by: E.S.

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates March 22 & 23, 1940 DATA Hourly precipitation from recording gages.

Stations listed in each watershed by location North to South.

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID T	SUM	MEAN	Sta.No.
West Tarkio Creek Watershed																											
March 22, 1940																											
22																						.03	.01		.04		22
20																						.01	.01		.02		20
16																											16
9																											9
21																											21
23																											23
Sums																						.04	.02		.06		Sums
																									.01		Mean of Sums
Means																						.01			.01		Sum of Means
Tarkio River Watershed																											
33																								.01	.01		33
1																											1
36																						.01	.01		.02		36
38																						.01	.02	.01	.04		38
41																											41
4																											4
44																											44
47																											47
Sums																						.02	.03	.02	.07		Sums
																									.01		Mean of Sums
Means																											Sum of Means

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID T	SUM	MEAN	Sta.No.
West Tarkio Creek Watershed																											
March 23, 1940																											
22										.01											.03	.01			.05		22
20																					.01	.01			.02		20
16																					.01	.01			.02		16
9																					.01			.01	.02		9
21																						.01		.01	.02		21
23																						.01		.01	.02		23
Sums										.01											.06	.05		.03	.15		Sums
																									.02		Mean of Sums
Means																					.01	.01			.02		Sum of Means
Tarkio River Watershed																											
33																						.01	.01	.01	.03		33
1																					.01	.01			.02		1
36		.01																			.01	.02			.04		36
38																					.02	.01		.01	.04		38
41																						.01	.01		.02		41
4																						.01			.01		4
44																						.01	.01		.02		44
47																						.01		.01	.02		47
Sums		.01																			.04	.09	.03	.03	.20		Sums
																									.02		Mean of Sums
Means																						.01			.01		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates March 24 & 28, 1940 DATA Hourly precipitation from recording gages.

Stations listed in each watershed by location North to South.

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
West Tarkio Creek Watershed																											
March 24, 1940																											
22									.01																.01		22
20																											20
16																											16
9																											9
21		.01		.01																					.02		21
23		.01		.01																					.02		23
Sums		.02		.02					.01																.05		Sums
																									.01		Mean of Sums
Means																											Sum of Means
Tarkio River Watershed																											
33																											33
1																											1
36																											36
38																											38
41																											41
4																											4
44	.01			.01																					.02		44
47		.01		.01																					.02		47
Sums	.01	.01		.02																					.04		Sums
																											Mean of Sums
Means																											Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
West Tarkio Creek Watershed																											
March 28, 1940																											
22																	.10								.10		22
20																	.07								.07		20
16																	.07								.07		16
9																.02									.02		9
21																.03									.03		21
23															.05										.05		23
Sums															.05	.05	.24								.34		Sums
																									.06		Mean of Sums
Means															.01	.01	.04								.06		Sum of Means
Tarkio River Watershed																											
33																		.03							.03		33
1																	.04	.01							.05		1
36																	.04								.04		36
38																	.05								.05		38
41																.02									.02		41
4																	.10								.10		4
44																	.01								.01		44
47																	.04								.04		47
Sums																.02	.28	.04							.34		Sums
																									.04		Mean of Sums
Means																	.04								.04		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

STATIONS Nos. 29 & 48 for March, 1940 DATA Hourly precipitation from Stations Nos. 29 & 48.

Station No. 29

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID T	SUM	MEAN	DATE
1																							.11		.11		1
2	.19	.09	.11	.10	.02	.01	.02	.02	.02	.01															.59		2
3										.03															.03		3
									Gage reestablished on March 1.																		
6														.02											.02		6
7									.01	.06	.05	.01													.13		7
9									.01		.01														.02		9
19																	.02								.02		19
24										.01															.01		24
29																				.02					.02		29
SUMS	.19	.09	.11	.10	.02	.01	.02	.02	.04	.11	.06	.01		.02			.02			.02			.11		.95		SUMS
MEANS																											MEANS

Station No. 48

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID T	SUM	MEAN	DATE
1																						.01	.01	.01	.03		1
2	.12	.01	.18	.08	.10	.11	.02	.01	.01	.03	.04	.03													.74		2
6													.04	.01	.01	.02	.01	.01			.01		.01		.12		6
7	.01															.01	.01		.01		.01			.01	.06		7
9						.01						.01													.02		9
12																	.05	.06	.03	.01	.01	.01		.01	.18		12
19																	.03	.01							.04		19
28																	.08								.08		28
SUMS	.13	.01	.18	.08	.10	.12	.02	.01	.01	.03	.04	.04	.04	.01	.1	.03	.18	.08	.04	.01	.03	.02	.02	.03	[illegible]		SUMS
MEANS																											MEANS

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates April 2 & 6, 1940 DATA Hourly precipitation from recording gages.

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID T	SUM	MEAN	Sta.No.
Stations listed in each watershed by location North to South.																											
West Tarkio Creek Watershed																											
April 2, 1940																											
22																											22
20																											20
16																											16
9																											9
21																											21
23																											23
Sums																											Sums
																											Mean of Sums
Means																											Sum of Means
Tarkio River Watershed																											
33																					.02			.01	.03		33
1																					.04				.04		1
36																					.02				.02		36
38																											38
41																											41
4																											4
44																											44
47																											47
Sums																					.08			.01	.09		Sums
																									.01		Mean of Sums
Means																					.01				.01		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID T	SUM	MEAN	Sta.No.
West Tarkio Creek Watershed																											
April 6, 1940																											
22																					.02	.07	.14	.10	.33		22
20																				.02	.08	.12	.10	.05	.37		20
16																				.02	.10	.10	.08	.04	.34		16
9																						.10	.06	.06	.22		9
21																						.13	.06	.06	.25		21
23																				.03	.10	.11	.08	.05	.37		23
Sums																				.07	.30	.63	.52	.36	1.88		Sums
																									.31		Mean of Sums
Means																				.01	.05	.10	.09	.06	.31		Sum of Means
Tarkio River Watershed																											
33																						.02	.10	.09	.21		33
1																						.01	.03	.15	.19		1
36																						.04	.16	.11	.31		36
38																					.02	.10	.13	.07	.32		38
41																						.13	.08	.05	.26		41
4																					.01	.13	.14	.11	.39		4
44																					.03	.20	.11	.07	.41		44
47																					.04	.13	.12	.06	.43		47
Sums																					.13	.81	.87	.71	2.52		Sums
																									.32		Mean of Sums
Means																					.02	.10	.11	.09	.32		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates ~~STATION~~ April 7 & 8, 1940 DATA Hourly precipitation from recording gages.

Stations listed in each watershed by location North to South.

West Tarkio Creek Watershed

April 7, 1940

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
22	.08	.09	.05	.03	.07		.07	.03	.05	.03	.02	.01	.01		.03	.03	.03			.01				.01	.65		22
20	.09	.01	.01	.05	.01	.07	.05	.02	.02	.02	.01	.01			.01	.02	.01								.40		20
16	.07	.02	.07	.01	.03	.05	.02	.02	.02	.02	.01	.01			.03	.01	.01								.40		16
9	.08	.10		.03	.03	.04	.04	.03	.04	.01	.02	.02	.02	.01	.02	.01	.01	.01		.01					.52		9
21	.16		.01	.03	.04	.05	.02	.03	.03	.02	.01	.01	.01	.01	.01	.01	.02	.01	.01	.01					.50		21
23	.13		.06	.02	.07	.02	.03	.02	.02	.02	.02	.02	.02	.01	.02	.01	.02	.02	.01						.54		23
Sums	.61	.22	.20	.17	.25	.23	.23	.15	.18	.12	.09	.03	.05	.03	.12	.08	.10	.04	.02	.03				.01	3.01		Sums
																									.50		Mean of Sums
Means	.10	.04	.03	.03	.04	.04	.04	.02	.03	.02	.02	.01	.01		.02	.01	.02	.01							.49		Sum of Means

Tarkio River Watershed

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
33	.08	.03	.04	.04	.03	.01	.06	.05	.04	.03	.01	.01	.01	.02	.02	.02	.02							.01	.53		33
1	.13	.04	.09	.02	.03	.05	.04	.06	.04	.04	.02		.01	.01	.02	.02	.02	.02			.01		.01		.68		1
36	.10	.04	.04	.08		.05	.02	.03	.03	.03	.02			.02	.01	.02									.53		36
38	.08	.10	.01	.07	.04	.05	.07	.03	.04	.02	.02	.01				.02	.02		.01						.59		38
41	.05	.08		.03	.04	.04	.05	.04	.02	.01	.01	.04					.04	.02							.47		41
4	.10	.08	.02	.05	.02	.06	.06	.06	.01	.03	.02	.01	.01		.01	.02	.01	.01			.01				.59		4
44	.14	.06	.02	.06	.03	.06	.05	.04	.02	.01	.03	.03	.01	.01	.01	.01	.02	.01							.62		44
47	.11	.01	.04	.03	.05	.05	.05	.02	.02	.01	.01	.03	.01	.02	.01	.02	.01	.01							.51		47
Sums	.79	.44	.26	.38	.24	.37	.44	.33	.22	.18	.14	.13	.05	.08	.08	.13	.14	.07	.01		.02		.01	.01	4.52		Sums
																									.56		Mean of Sums
Means	.10	.06	.03	.05	.03	.05	.06	.04	.03	.02	.02	.02	.01	.01	.01	.02	.02	.01							.59		Sum of Means

West Tarkio Creek Watershed

April 8, 1940

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
22		.01	.02																						.03		22
20		.01	.01																						.02		20
16		.01	.01																						.02		16
9			.01	.02																					.03		9
21																											21
23			.02	.01		.01																			.04		23
Sums		.03	.07	.03		.01																			.14		Sums
																									.02		Mean of Sums
Means			.01																						.01		Sum of Means

Tarkio River Watershed

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
33	.01	.01	.02																						.04		33
1	.01		.03	.01																					.05		1
36		.03																							.03		36
38		.01	.01	.01																					.03		38
41			.01	.01																					.02		41
4																											4
44				.02																					.02		44
47			.02																						.02		47
Sums	.02	.05	.09	.05																					.21		Sums
																									.03		Mean of Sums
Means		.01	.01	.01																					.03		Sum of Means

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.
Dates April 9 & 10, 1940 DATA Hourly precipitation from recording gages.

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta.No.
Stations listed in each watershed by location North to South.																											
West Tarkio Creek Watershed																											
April 9, 1940																											
22																											22
20																											20
16																											16
9																											9
21																											21
23																											23
Sums																											Sums
Means																											Mean of Sums
																											Sum of Means
Tarkio River Watershed																											
33																											33
1																											1
36																											36
38																											38
41																											41
4									.01																.01		4
44																											44
47																											47
Sums									.01																.01		Sums
Means																											Mean of Sums
																											Sum of Means

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta.No.
West Tarkio Creek Watershed																											
April 10, 1940																											
22						.01	.05																		.06		22
20						.04	.02	.01																	.07		20
16						.03	.04																		.07		16
9		.01				.02	.03																		.06		9
21	.01	.02				.04	.01																		.08		21
23	.02			.01	.01	.04																			.08		23
Sums	.03	.03		.01	.01	.18	.15	.01																	.42		Sums
Means						.03	.02																		.07		Mean of Sums
																									.05		Sum of Means
Tarkio River Watershed																											
33				.01	.01		.03	.01	.01																.07		33
1								.03																	.03		1
36						.02	.02	.01	.01																.06		36
38							.05	.02																	.07		38
41						.07	.03																		.10		41
4					.01	.01	.07	.01																	.10		4
44							.03																		.03		44
47						.01	.01																		.02		47
Sums				.01	.02	.11	.24	.08	.02																.48		Sums
Means						.01	.03	.01																	.06		Mean of Sums
																									.05		Sum of Means

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Sheet 24 of 43 Sheets

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates April 17 & 18, 1940 DATA Hourly precipitation from recording gages.

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta.No.
	Stations listed in each watershed by location North to South.																										
	West Tarkio Creek Watershed.																										
	April 17, 1940																										
22	.02		.06	.09	.12	.01	.02																		.32		22
20	.02	.01	.17	.09		.01	.01																		.31		20
16		.07	.15	.09	.09																				.40		16
9	.01	.09	.13	.07	.05																				.35		9
21	.03	.04	.25	.04	.03	.02																			.41		21
23	.05	.05	.25	.05	.02	.02	.01																		.45		23
Sums	.13	.26	1.01	.43	.31	.06	.04																		2.24		Sums
																									.37		Mean of Sums
Means	.02	.04	.17	.06	.05	.01	.01																		.36		Sum of Means
	Tarkio River Watershed																										
33		.02		.02	.10	.08															.01	.02	.01		.26		33
1		.01		.15	.12	.02																		.01	.31		1
36		.02	.08	.12	.06	.02	(Dist. by Interpolation)																		.30		36
38		.01	.16	.15	.11	.01	.01																		.45		38
41		.05	.25	.08	.09	.02	.01																		.50		41
4		.01	.20	.08	.10	.03	.01																		.43		4
44		.01	.19	.12	.11	.03	.03																		.49		44
47		.07	.27	.09	.05	.02																			.50		47
Sums		.20	1.15	.81	.74	.23	.06														.01	.02	.01	.01	3.24		Sums
																									.40		Mean of Sums
Means		.02	.14	.10	.09	.03	.01																		.39		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta.No.
	West Tarkio Creek Watershed																										
	April 18, 1940																										
22				.01		.01																			.02		22
20																											20
16																											16
9																											9
21																											21
23																											23
Sums				.01		.01																			.02		Sums
																											Mean of Sums
Means																											Sum of Means
	Tarkio River Watershed																										
33																											33
1	.01	.01																							.02		1
36	.01		.01	(Dist. by Interpolation)																					.02		36
38																											38
41																											41
4																											4
44																											44
47																											47
Sums	.02	.01	.01																						.04		Sums
																											Mean of Sums
Means																											Sum of Means
SUMS																											SUMS
MEANS																											MEANS

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.
Dates April 9 & 10, 1940 DATA Hourly precipitation from recording gages.

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
	Stations listed in each watershed by location North to South.																										
	West Tarkio Creek Watershed																										
	April 9, 1940																										
22																											22
20																											20
16																											16
9																											9
21																											21
23																											23
Sums																											Sums
																											Mean of Sums
Means																											Sum of Means
	Tarkio River Watershed																										
33																											33
1																											1
36																											36
38																											38
41																											41
4									.01																.01		4
44																											44
47																											47
Sums									.01																.01		Sums
																											Mean of Sums
Means																											Sum of Means
MEANS																											MEANS

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MDT	SUM	MEAN	Sta. No.
	West Tarkio Creek Watershed																										
	April 10, 1940																										
22						.01	.05																		.06		22
20						.04	.02	.01																	.07		20
16						.03	.04																		.07		16
9		.01				.02	.03																		.06		9
21	.01	.02				.04	.01																		.08		21
23	.02			.01	.01	.04																			.08		23
Sums	.03	.03		.01	.01	.18	.15	.01																	.42		Sums
Means						.03	.02																		.07		Mean of Sums
																									.05		Sum of Means
	Tarkio River Watershed																										
33				.01	.01		.03	.01	.01																.07		33
1								.03																	.03		1
36						.02	.02	.01	.01																.06		36
38							.05	.02																	.07		38
41						.07	.03																		.10		41
4					.01	.01	.07	.01																	.10		4
44							.03																		.03		44
47						.01	.01																		.02		47
Sums				.01	.02	.11	.24	.08	.02																.48		Sums
Means						.01	.03	.01																	.06		Mean of Sums
																									.05		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates April 21 & 22, 1940 DATA Hourly precipitation from recording gages.

Stations listed in each watershed by location North to South.

West Tarkio Creek Watershed

April 21, 1940

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
22						.02			.02																.04		22
20										.01															.01		20
16						.01																			.01		16
9																											9
21						.02																			.02		21
23						.01				.01															.02		23
Sums						.06			.02	.02															.10		Sums
																									.02		Mean of Sums
Means						.01																			.01		Sum of Means

Tarkio River Watershed

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
33							.02		.01	.01	.01														.05		33
1							.02			.02															.04		1
36							.01			.02															.03		36
38							.01			.01															.02		38
41																											41
4											.01	.01													.02		4
44																											44
47																											47
Sums							.06		.01	.06	.02	.01													.16		Sums
																									.02		Mean of Sums
Means							.01			.01															.02		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

West Tarkio Creek Watershed

April 22, 1940

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MDT	SUM	MEAN	Sta. No.
22													.01	.01	.03	.07	.03	.08	.06	.04	.01	.01	.01	.04	.47		22
20														.01	.02	.04	.03	.09	.11	.03	.02	.02	.07	.07	.51		20
16												.01		.04	.08	.02	.09	.13	.01	.01	.01			.04	.44		16
9												.01		.01	.07	.10	.08	.09	.12	.00					.48		9
21											.02	.03		.04	.10	.05	.04	.09	.23	.01					.51		21
23											.01	.05	.02	.01	.02	.09	.04	.04	.13	.05					.50		23
Sums											.03	.10	.03	.08	.34	.43	.26	.48	.70	.25	.04	.04	.08	.15	3.01		Sums
																									.50		Mean of Sums
Means												.02		.01	.06	.07	.04	.08	.12	.04	.01	.01	.01	.02	.49		Sum of Means

Tarkio River Watershed

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MDT	SUM	MEAN	Sta. No.
33													.03	.01	.01		.05	.10	.03	.07	.10	.02	.01	.08	.56		33
1													.01	.01	.01	.01	.05	.07	.09	.07	.07	.02	.01	.04	.46		1
36														.01	.02	.03	.04	.10	.07	.06	.01	.01	.02	.02	.41		36
38													.01	.02	.03	.06	.04	.10	.07	.03	.02	.02	.02	.02	.41		38
41												.02		.01	.03	.05	.04	.03	.05	.03	.04	.01	.04	.04	.49		41
4												.02		.04	.07	.04	.13	.09	.04	.02		.01	.02	.02	.48		4
44													.04		.03	.06	.02	.09	.05	.02	.04	.04	.02	.02	.41		44
47												.03		.04	.07	.04	.04	.09	.03	.03	.02	.01	.01	.01	.56		47
Sums												.06	.08	.08	.19	.34	.52	.54	.68	.43	.37	.15	.20	.24	3.79		Sums
																									.47		Mean of Sums
Means												.01	.01	.01	.02	.03	.06	.07	.08	.05	.05	.02	.02	.03	.46		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.
Dates April 23 & 25, 1940 DATA Hourly precipitation from recording gages.

Stations listed in each watershed by location North to South.

West Tarkio Creek Watershed

April 23, 1940

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
22	.03	.04	.02	.01	.02	.01	.01																		.14		22
20	.01	.01	.03	.01	.01	.01																			.08		20
16	.02	.02	.01	.01																					.06		16
9	.01	.01	.01	.01																					.04		9
21	.03	.01																							.04		21
23		.02	.02	.01																					.05		23
Sums	.10	.11	.09	.05	.03	.02	.01																		.41		Sums
																									.07		Mean of Sums
Means	.02	.02	.02	.01																					.07		Sum of Means

Tarkio River Watershed

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
33	.02	.02	.02	.01	.02	.02																			.11		33
1	.03	.04	.05	.01	.03	.02																			.18		1
36	.03	.02	.04		.01	.02																			.12		36
38	.02	.01	.03	.01	.01	.01																			.09		38
41	.02	.01	.01																						.04		41
4	.02	.01	.01	.01		.01	.01																		.07		4
44	.03	.02	.01	.01	.01	.01																			.09		44
47	.01	.02		.01		.01																			.05		47
Sums	.18	.15	.17	.06	.03	.10	.01																		.75		Sums
																									.09		Mean of Sums
Means	.02	.02	.02	.01	.01	.01																			.09		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

West Tarkio Creek Watershed

April 25, 1940

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
22											.02	.08	.18	.12	.10	.16	.20	.09	.04	.02	.01	.02			1.04		22
20											.01	.10	.15	.05	.03	.09	.16	.15	.06	.02	.03		.01		.86		20
16												.09	.11	.01	.04	.04	.06	.24	.10	.10	.01	.02	.02	.01	.88		16
9												.07				.03	.05	.03	.17	.09	.05	.02		.01	.52		9
21											.02	.04	.01			.03	.02	.04	.13	.03	.02	.01		.01	.41		21
23												.01	.01				.06		.03	.14	.10	.03	.04	.02	.44		23
Sums											.05	.39	.46	.18	.17	.35	.55	.55	.53	.45	.25	.10	.07	.05	4.15		Sums
																									.69		Mean of Sums
Means											.01	.06	.08	.03	.03	.06	.09	.09	.09	.08	.04	.02	.01	.01	.70		Sum of Means

Tarkio River Watershed

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
33											.04	.12	.17	.14	.16	.15	.05	.08		.02					.93		33
1												.09	.22	.16	.20	.23	.15	.06	.03	.01	.02				1.17		1
36												.04	.20	.09	.09	.14	.24	.07	.04	.04	.02	.02			.96		36
38												.03	.21	.08	.05	.15	.20	.25	.13	.02	.04	.02	.02		1.11		38
41												.06	.14	.09	.06	.03	.11	.23	.10	.09	.06	.05	.01	.01	.91		41
4												.01	.10	.01	.01	.08	.09	.06	.26	.18	.05	.02		.01	.90		4
44												.02	.07		.01	.01	.07	.05	.16	.15	.10	.03	.02	.01	.70		44
47												.03	.02			.02	.06	.05	.17	.08	.05	.02	.01	.01	.52		47
Sums											.04	.40	1.13	.52	.55	.72	.97	.80	.91	.58	.34	.16	.06	.04	7.20		Sums
												.05	.14	.06	.07	.09	.12	.10	.11	.07	.04	.02	.01		.88		Mean of Sums
Means																											Sum of Means
SUMS																											SUMS
MEANS																											MEANS

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Final check by: E.S.

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates April 26 & 28, 1940 DATA Hourly precipitation from recording gages.

Stations listed in each watershed by location north to South.

West Tarkio Creek Watershed

April 26, 1940

DATE	1	2	3	4	5	6	7	8	9	10	11	NOON	1	2	3	4	5	6	7	8	9	10	11	MID T	SUM	MEAN	DATE
22																											22
20																											20
16																											16
9	.01			.01																					.02		9
21		.01		.01																					.02		21
23				.01																					.01		23
Sums	.01	.01		.03																					.05		Sums
																									.01		Mean of Sums
Means																											Sum of Means

Tarkio River Watershed

DATE	1	2	3	4	5	6	7	8	9	10	11	NOON	1	2	3	4	5	6	7	8	9	10	11	MID T	SUM	MEAN	DATE
33																											33
1																											1
36																											36
38																											38
41																											41
4																											4
44	.01	.01		.01																					.03		44
47		.01																							.01		47
Sums	.01	.02		.01																					.04		Sums
																											Mean of Sums
Means																											Sum of Means
SUMS																											SUMS
MEANS																											MEANS

West Tarkio Creek Watershed

April 28, 1940

Sta. No.	1	2	3	4	5	6	7	8	9	10	11	NOON	1	2	3	4	5	6	7	8	9	10	11	MID T	SUM	MEAN	Sta. No.
22													.29	.20	.05	.07	.16	.01		.01		.01	.10	.03	.93		22
20									.02			.12	.31	.05	.05	.43	.07					.04	.06	.01	1.16		20
16										.03		.01	.17	.04	.07	.30	.06					.08		.01	.77		16
9											.03	.04	.02	.14	.12	.26	.10			.01		.03	.01	.01	.77		9
21												.08	.17	.11	.18	.24	.05					.19	.02		1.04		21
23													.18	.18	.12	.22	.14						.02	.01	.87		23
Sums									.02	.03	.03	.25	1.34	.72	.59	1.52	.58	.01		.02		.35	.21	.07	5.54		Sums
																									.92		Mean of Sums
Means												.04	.19	.12	.10	.25	.10					.06	.04	.01	.91		Sum of Means

Tarkio River Watershed

Sta. No.	1	2	3	4	5	6	7	8	9	10	11	NOON	1	2	3	4	5	6	7	8	9	10	11	MID T	SUM	MEAN	Sta. No.
33													.02	.10	.05	.04	.24	.05		.02	.01	.01	.02	.02	.58		33
1													.04	.10	.04	.33	.18	.02	.02		.01	.01	.03	.01	.79		1
36													.01	.16	.04	.10	.23	.03	.03	.03		.01	.06	.01	.71		36
38													.10	.02	.05	.17	.17	.02	.02		.02	.08	.07		.72		38
41													.11	.03	.07	.13	.13	.01	.02	.01	.01	.03	.01		.61		41
4												.12	.15	.05	.05	.27	.10	.01	.01	.01		.01	.01		.83		4
44													.12	.05	.04	.10	.21	.02	.07			.01	.03	.02	.71		44
47												.04	.12	.05	.11	.21	.14	.02	.02			.11	.02	.02	.81		47
Sums												.16	.67	.60	.49	1.37	1.30	.25	.19	.07	.05	.20	.24	.08	5.76		Sums
																									.72		Mean of Sums
Means												.02	.08	.08	.06	.17	.16	.03	.02	.01	.01	.03	.03	.01	.72		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Date ~~STATION~~ April 29, 1940 DATA Hourly precipitation from recording gages.

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
	Stations listed in each watershed by location North to South																										
	West Tarkio Creek Watershed																										
22																											22
20																											20
16																											16
9	.01																								.01		9
21																											21
23		.01																							.01		23
Sums	.01	.01																							.02		Sums
																											Mean of Sums
Means																											Sum of Means
	Tarkio River Watershed																										
33																											33
1																											1
36				.02																					.02		36
38																											38
41																											41
4																											4
44	.01																								.01		44
47																											47
Sums	.01			.02																					.03		Sums
																											Mean of Sums
Means																											Sum of Means
SUMS																											SUMS
MEANS																											MEANS

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE
SUMS																											SUMS
MEANS																											MEANS

Copied by: W.S.
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Checked by: W.S.& E.S. CLIMATIC DATA SHEET
Final check by: E.S.

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

Project No. SCS-IA-1
Shenandoah, Iowa.

STATIONS Nos. 29 & 48 for April, 1940 DATA Hourly precipitation from Stations Nos. 29 & 48.

Station No. 29

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID T	SUM	MEAN	DATE
6																					.01	.02	.04	.03	.10		6
7	.02	.04		.01	.01	.01	.01	.01	.01	.01	.01	.01				.01		.01							.17		7
8			.02																						.02		8
10			.01				.03																		.04		10
17		.04	.05	.02	.03	.02	.01																		.17		17
21						.01			.02																.03		21
22												.01		.02	.07	.08	.07	.12	.08	.01		.01		.02	.49		22
23	.01		.01		.01																				.03		23
25												.04	.07		.01	.03	.06	.06	.17	.20	.07	.04	.01	.01	.77		25
28										.01		.03	.08	.09	.11	.27	.05				.01	.07		.01	.73		28
29	.01																								.01		29
SUMS	.04	.08	.09	.03	.05	.04	.05	.01	.03	.02	.01	.09	.15	.11	.19	.39	.18	.19	.25	.21	.09	.14	.05	.07	2.56		SUMS
MEANS																											MEANS

Station No. 48

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID T	SUM	MEAN	DATE
6																					.02	.06	.10	.08	.26		6
7	.05	.06	.08	.02	.05	.02	.06	.04	.04	.02	.02	.03				.01	.02	.03	.01						.56		7
8				.02																					.02		8
10						.04	.06																		.10		10
17		.06	.13	.08	.08	.02																			.37		17
21						.01	.01			.01															.03		21
22													.01	.01	.01	.04	.09	.08	.15	.05		.01		.01	.46		22
23	.03	.02	.01	.01																					.07		23
25												.02	.12	.02	.01	.02	.10	.05	.18	.17	.10	.02	.02	.01	.84		25
26	.01																								.01		26
28											.04		.08	.13	.08	.14	.34	.06	.02	.01		.01	.01	.02	.94		28
SUMS	.09	.14	.22	.13	.13	.09	.13	.04	.04	.03	.06	.05	.21	.16	.10	.21	.55	.22	.36	.23	.12	.10	.13	.12	3.66		SUMS

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates May 6 & 7, 1940 DATA Hourly precipitation from recording gages.

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
Stations listed in each watershed by location North to South.																											
West Tarkio Creek Watershed																											
May 6, 1940																											
22								.10	.08		.04	.01		.01											.24		22
20								.10	.06		.01	.03	.01												.21		20
16								.01		.01	.05	.01	.02												.10		16
9								.03	.02	.03															.13		9
21								.30	.05																.35		21
23							.18	.06	.03																.27		23
Sums							.18	.65	.24	.04	.10	.05	.03	.01											1.30		Sums
																									.22		Mean of Sums
Means							.03	.11	.04	.01	.02	.01													.22		Sum of Means
Tarkio River Watershed																											
33									.02	.14		.01													.17		33
1								.04	.13		.02	.02							.05						.26		1
36									.02	.08	.01	.01	.03												.15		36
38								.02	.04		.05	.17	.10												.38		38
41								.03	.01	.02	.05				.01										.12		41
4								.02	.02	.04	.03														.11		4
44								.21	.02	.02															.25		44
47								.18	.02	.03															.23		47
Sums								.50	.28	.33	.16	.21	.13		.01				.05						1.67		Sums
																									.21		Mean of Sums
Means								.06	.04	.04	.02	.03	.02						.01						.22		Sum of Means
MEANS																											MEANS

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
West Tarkio Creek Watershed																											
May 7, 1940																											
22										.02							.05	.02	.15						.24		22
20																		.10	.02						.12		20
16				.02														.02	.15						.19		16
9											.02							.01	.06						.09		9
21																		.04	.01						.05		21
23																		.03	.02						.05		23
Sums				.02						.02	.02						.05	.22	.41						.74		Sums
																									.12		Mean of Sums
Means																	.01	.04	.07						.12		Sum of Means
Tarkio River Watershed																											
33			.05	.05							.03								.06						.19		33
1		.02	.01			.02											.07	.08	.04						.24		1
36				.06															.17						.23		36
38			.02	.02			.02												.10						.16		38
41				.03				.01		.01		.04	.07					.01	.09						.26		41
4												.02			.02			.03	.03	.01					.10		4
44												.02		.01			.01	.01	.02	.01					.08		44
47												.02						.02							.04		47
Sums		.02	.08	.16		.02	.02	.01		.01	.03	.10	.07	.01	.02		.08	.15	.56	.02					1.36		Sums
																									.17		Mean of Sums
Means			.01	.02								.01	.01				.01	.02	.07						.15		Sum of Means
MEANS																											MEANS

Form SCS-376

Project No. SCS-14-1
Shenandoah, Iowa.

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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CLIMATIC DATA SHEET
Sheet 31 of 43 Sheets

Dates May 10 & 14, 1940 DATA Hourly precipitation from recording gages.

Sta. No. \ DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE \ Sta. No.
Stations listed in each watershed by location North to South.																											
West Tarkio Creek Watershed																											
May 10, 1940																											
22																											22
20		.03	.02																						.05		20
16																											16
9																											9
21																											21
23																											23
Sums		.03	.02																						.05		Sums
																									.01		Mean of Sums
Means																											Sum of Means
Tarkio River Watershed																											
33		.01	.03																						.02		33
1																											1
36		.01		.01																					.02		36
38			.01	.01																					.02		38
41	.01	.01	.03																						.05		41
4				.02																					.02		4
44			.02																						.02		44
47																											47
Sums	.01	.03	.07	.04																					.15		Sums
																									.02		Mean of Sums
Means		.	.01																						.01		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Sta. No. \ DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	DATE \ Sta. No.
West Tarkio Creek Watershed																											
May 14, 1940																											
22																	.03		.01	.01					.05		22
20																											20
16																											16
9																											9
21																											21
23																											23
Sums																	.03		.01	.01					.05		Sums
																									.01		Mean of Sums
Means																											Sum of Means
Tarkio River Watershed																											
33																	.01	.03	.03	.01	.03				.11		33
1																			.03						.03		1
36																	.02	.01		.02					.05		36
38																											38
41																											41
4																											4
44																											44
47																											47
Sums																	.03	.04	.11	.03	.03				.24		Sums
																									.03		Mean of Sums
Means																			.01						.01		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Form SCS-376

Project No. SCS-IA-1
Shenandoah, Iowa.

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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CLIMATIC DATA SHEET
Sheet 32 of 43 Sheets

Dates May 16 & 17, 1940 DATA Hourly precipitation from recording gages.

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MIDN	SUM	MEAN	Sta. No.
	Stations listed below were had by Drainage Basin to [illegible]																										
	West Tarkio Creek Watershed																										
	May 16, 1940																										
22																											22
20																											20
16																					.02				.02		16
9																											9
21																					.02				.02		21
23																				.01	.05				.06		23
Sums																				.01	.09				.10		Sums
																									.02		Mean of Sums
Means																					.02				.02		Sum of Means
	Tarkio River Watershed																										
33																											33
1																											1
36																											36
38																											38
41																											41
4																											4
44																						.02			.02		44
47																											47
Sums																						.02			.02		Sums
																											Mean of Sums
Means																											Sum of Means
																											Means

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MIDN	SUM	MEAN	Sta. No.
	West Tarkio Creek Watershed																										
	May 17, 1940																										
22																											22
20																											20
16																											16
9																											9
21																											21
23			.03	.03																					.06		23
Sums			.03	.03																					.06		Sums
																									.01		Mean of Sums
Means																											Sum of Means
	Tarkio River Watershed																										
33																											33
1																											1
36																											36
38																											38
41																											41
4																											4
44																											44
47																											47
Sums																											Sums
																											Mean of Sums
Means																											Sum of Means
																											Means

Form SCS-J76

Project No. SCS-IA-1
Shenandoah, Iowa.

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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CLIMATIC DATA SHEET

Sheet 33 of 43 Sheets

Dates May 18 & 20, 1940 DATA Hourly precipitation from recording gages.

Stations listed in geographical order by location North to South.

West Tarkio Creek Watershed

May 18, 1940

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
22					.04	.14	.06	.02	.04	.15	.03	.10	.07	.02	.01	.03									.76		22
20				.02	.03	.11	.03	.03	.11	.10	.06	.11	.03	.01	.01										.70		20
16					.03	.11	.06	.02	.04	.14	.10	.15	.10	.03		.02									.80		16
9					.16	.08	.06	.03	.05	.14	.13	.08	.19	.08											1.00		9
21				.22	.13	.06	.06	.03	.14	.11	.19	.19	.09												1.20		21
23				.23	.10	.07	.04	.01	.20	.12	.13	.20	.11	.06											1.27		23
Sums				.47	.54	.57	.31	.12	.58	.76	.69	.83	.59	.20	.02	.05									5.73		Sums
																									.96		Mean of Sums
Means				.08	.09	.10	.05	.02	.10	.13	.12	.14	.10	.02		.01									.96		Sum of Means

Tarkio River Watershed

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
33					.01	.04	.10	.03	.02	.10	.07	.07	.07	.02	.03	.02	.01								.61		33
1					.05	.08	.03	.04	.03	.10	.07	.07	.09	.01	.02	.03									.68		1
36					.02	.05	.10	.03	.02	.05	.12	.09	.14	.10	.05	.01	.03								.87		36
38					.07	.13	.05	.03	.04	.15	.10	.10	.15	.07	.01	.03									.94		38
41				.10	.12	.03	.06	.02	.13	.05	.10	.06	.14	.04	.01	.01									.86		41
4				.02	.05	.09	.06	.04	.07	.15	.11	.06	.14	.06		.02									.88		4
44					.03	.06	.07	.03	.02	.12	.10	.07	.06	.09	.06	.01									.73		44
47					.14	.05	.06	.03	.03	.12	.10	.06	.06	.13	.04										.82		47
Sums				.12	.54	.52	.52	.37	.38	.77	.80	.58	.85	.57	.19	.16	.05	.01							6.43		Sums
																									.90		Mean of Sums
Means				.02	.07	.06	.05	.05	.05	.10	.10	.07	.11	.07	.02	.02	.01								.81		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

West Tarkio Creek Watershed

May 20, 1940

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
22																						.09			.09		22
20																						.02			.02		20
16																			.13	.03					.16		16
9																		.01	.06	.01	.02				.10		9
21																		.01	.68	.04					.73		21
23																			.30	.25	.03				.58		23
Sums																		.02	1.17	.33	.05	.11			1.68		Sums
																									.28		Mean of Sums
Means																			.20	.06	.01	.02			.29		Sum of Means

Tarkio River Watershed

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
33																							.03	.01	.04		33
1																		.01		.01		.05		.01	.08		1
36																							.03		.03		36
38																			.40						.40		38
41																			.05						.05		41
4																			.01	.01	.01				.03		4
44																				.03					.03		44
47																				.33	.03				.36		47
Sums																		.01	.46	.37	.04	.05	.06	.02	1.01		Sums
																									.13		Mean of Sums
Means																			.06	.05		.01	.02		.13		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Form SCS-376

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U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.
Dates
STATION May 21 & 24, 1940 DATA Hourly precipitation from recording gauge.

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
	Stations listed in each set ranked by location North to South.																										
	West Tarkio Creek Watershed																										
	May 21, 1940																										
22																											22
20																											20
16																											16
9																											9
21																											21
23																											23
Sums																											Sums
																											Mean of Sums
Means																											Sum of Means
	Tarkio River Watershed																										
33																											33
1																											1
36		.02																							.02		36
38																											38
41																											41
4																											4
44																											44
47																											47
Sums		.02																							.02		Sums
																											Mean of Sums
Means																											Sum of Means

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
	West Tarkio River Watershed																										
	May 24, 1940																										
22																											22
20					.01		.01																		.02		20
16																											16
9																											9
21																											21
23							.01	.01		.01															.03		23
Sums					.01		.02	.01		.01															.03		Sums
																									.01		Mean of Sums
Means																											Sum of Means
	Tarkio River Watershed																										
33																											33
1																											1
36																											36
38					.01	.01																			.02		38
41																											41
4																											4
44														.02											.02		44
47																											47
Sums					.01	.01								.02											.02		Sums
																											Mean of Sums
Means																											Sum of Means

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IM-1
Shenandoah, Iowa.

Dates
STATION May 25 & 31, 1940 DATA Hourly precipitation from recording gages.

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
	Stations listed in each watershed by Location North to South.																										
	West Tarkio Creek Watershed																										
	May 25, 1940																										
22																											22
20																											20
16																											16
9																											9
21																											21
23															.03	.02									.05		23
Sums															.03	.02									.05		Sums
																									.01		Mean of Sums
Means																											Sum of Means
	Tarkio River Watershed																										
33																											33
1																											1
36																											36
38																											38
41																											41
4																											4
44																											44
47																											47
Sums																											Sums
																											Mean of Sums
Means																											Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
	West Tarkio Creek Watershed																										
	May 31, 1940																										
22																											22
20																											20
16																											16
9																											9
21						.02																			.02		21
23																											23
Sums						.02																			.02		Sums
																											Mean of Sums
Means																											Sum of Means
	Tarkio River Watershed																										
33																											33
1																											1
36																											36
38																											38
41																											41
4								.01																	.01		4
44																											44
47																											47
Sums								.01																	.01		Sums
																											Mean of Sums
Means																											Sum of Means
SUMS																											SUMS
MEANS																											MEANS

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Form SCS-376

Project No. SCS-IA-1
Shenandoah, Iowa.

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Sheet 36 of 43 Sheets

STATIONS Nos. 29 & 48 for May, 1940 DATA. Hourly precipitation from recording gages Nos. 29 & 48.

Station No. 29

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T.	SUM	MEAN	DATE
6							.02	.02	.01	.03															.03		6
7												.06			.02			.03	.07						.18		7
18					.11	.10	.05	.04	.04	.12	.13	.13	.10	.05	.01	.02									.90		18
20																		.08	.01	.01					.10		20
SUMS					.11	.10	.07	.06	.05	.15	.13	.19	.10	.05	.03	.02		.11	.03	.01					1.26		SUMS
MEANS																											MEANS

Station No. 48

DATE	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T.	SUM	MEAN	DATE
6								.04	.02	.02	.05	.01													.14		6
7				.01			.01		.01									.02	.07						.12		7
16																					.01	.03	.01		.05		16
18						.08	.08	.05	.04	.03	.07	.15	.10	.12	.08		.01								.81		18
20																			.05						.05		20
31							.01		.01																.02		31
SUMS				.01		.08	.10	.09	.08	.05	.12	.16	.10	.12	.08		.01	.02	.12		.01	.03	.01		1.19		SUMS
MEANS																											MEANS

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.
Dates

STATION June 4 & 6, 1940 DATA Hourly precipitation from recording gages.

DATE / Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
Stations listed in each watershed in location North to South.																											
West Tarkio Creek Watershed																											
June 4, 1940																											
22			.12	.64	.15																				.91		22
20			.03	.74		.25	.03																		1.05		20
16					.65		.12																		.77		16
9			.49	.20		.01																			.70		9
21			.07	.31		.03																			.41		21
23			.10	.10																					.20		23
Sums			.81	1.99	.80	.29	.15																		4.04		Sums
																									.67		Mean of Sums
Means			.14	.33	.13	.05	.02																		.67		Sum of Means
Tarkio River Watershed																											
33				.43	.13																				.56		33
1				.25	.41	.04	.02																		.72		1
36				.83	.17	.22																			1.22		36
38				.02	.79		.10																		.91		38
41				.02	.73		.22																		1.02		41
4				.54	.24	.06	.04																		.88		4
44				.50	.19	.03																			.72		44
47				.71																					.71		47
Sums				3.30	2.71	.35	.38																		6.74		Sums
																									.84		Mean of Sums
Means				.41	.34	.04	.05																		.84		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

DATE / Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
West Tarkio Creek Watershed																											
June 6, 1940																											
22																											22
20																											20
16																.01									.01		16
9															.01										.01		9
21															.01										.01		21
23															.02	.01									.03		23
Sums															.04	.02									.06		Sums
																									.01		Mean of Sums
Means															.01										.01		Sum of Means
Tarkio River Watershed																											
33																											33
1																											1
36																											36
38																											38
41																.01									.01		41
4																											4
44																.02									.02		44
47																.01									.01		47
Sums																.04									.04		Sums
																											Mean of Sums
Means																											Sum of Means
SUMS																											SUMS
MEANS																											MEANS

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Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates June 7 & 11, 1940 DATA Hourly precipitation from recording gages.

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
Stations listed in each watershed by location North to South.																											
West Tarkio Creek Watershed																											
June 7, 1940																											
22																											22
20																.02									.02		20
16																											16
9																											9
21																											21
23																											23
Sums																.02									.02		Sums
																											Mean of Sums
Means																											Sum of Means
Tarkio River Watershed																											
33																.21	.15	.17							.53		33
1																.02	.03								.05		1
36																	.06								.06		36
38																											38
41																.01									.01		41
4																											4
44																											44
47																											47
Sums																.24	.24	.17							.65		Sums
																									.08		Mean of Sums
Means																.03	.03	.02							.08		Sum of Means

Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID'T	SUM	MEAN	Sta. No.
West Tarkio Creek Watershed																											
June 11, 1940																											
22																	.07	.07	.11	.14	.07	.01	.09	.02	.58		22
20																	.07	.04	.04	.15	.02		.07	.01	.47		20
16																		.01	.03	.12	.11	.02		.03	.34		16
9																.04	.06	.04	.05	.11	.02	.05	.03	.02	.42		9
21																.01	.05	.03	.10	.07	.03	.01	.01	.01	.40		21
23																.02	.07	.04	.11	.07	.16	.02	.01		.50		23
Sums																.07	.32	.26	.44	.66	.53	.11	.21	.09	2.62		Sums
																									.45		Mean of Sums
Means																.01	.05	.04	.07	.11	.09	.02	.04	.02	.45		Sum of Means
Tarkio River Watershed																											
33																	.02	.04	.08	.16	.04	.03	.05	.13	.54		33
1																	.03	.07	.10	.14	.04	.02	.07	.06	.53		1
36																	.03	.06	.05	.14	.05	.01	.08	.01	.43		36
38																	.05	.04	.12	.08	.06	.03	.07	.02	.45		38
41																.06	.06	.05	.16	.03		.06	.02		.49		41
4																.01	.05	.04	.05	.13	.11	.01	.04		.44		4
44																.01	.05	.04	.03	.11	.02	.01	.03	.03	.50		44
47					.01			.01								.03	.04	.05	.12	.08	.02	.04	.02	.01	.44		47
Sums					.01			.01								.36	.33	.43	.76	.91	.30	.19	.43	.24	3.96		Sums
																									.45		Mean of Sums
Means																.02	.04	.05	.10	.11	.05	.02	.05	.03	.47		Sum of Means

Form SCS-376

Project No. SCS-M-1
Shenandoah, Iowa.

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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CLIMATIC DATA SHEET

Dates June 12 & 13, 1940 DATA Hourly precipitation from recording gages.

Stations listed in each watershed by location North to South.

West Tarkio Creek Watershed

June 12, 1940

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
22	.02	.05	.03	.01	.01		.01	.02																	.16		22
20	.01	.01	.03																						.05		20
16		.04	.06												.02										.12		16
9		.04	.05	.03	.01	.01																			.14		9
21		.04	.06	.01																					.11		21
23	.02	.01	.02																						.05		23
Sums	.06	.19	.25	.05	.02	.01	.01	.02							.02										.63		Sums
																									.10		Mean of Sums
Means	.01	.03	.04	.01																					.09		Sum of Means

Tarkio River Watershed

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
33	.03	.02	.12	.02	.02	.02																			.23		33
1	.05	.04	.17	.01	.03	.03																			.33		1
36		.06	.01	.01																					.03		36
38	.01	.05	.02																						.08		38
41	.05	.05																							.10		41
4	.02	.02	.01	.01	.01		.01	.01																	.09		4
44		.01	.03	.02	.01		.01		.01		.01	.01													.10		44
47	.01	.01																							.02		47
Sums	.17	.26	.36	.06	.07	.05	.02	.01	.01		.01	.01													1.06		Sums
																									.13		Mean of Sums
Means	.02	.03	.04	.01	.01	.01																			.12		Sum of Means

West Tarkio Creek Watershed

June 13, 1940

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
22																			.02						.02		22
20																											20
16								.02	.02																.04		16
9																											9
21																											21
23																											23
Sums								.02	.02										.02						.06		Sums
																									.01		Mean of Sums
Means																											Sum of Means

Tarkio River Watershed

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
33																											33
1																											1
36																			.05						.05		36
38									.01	.01															.02		38
41																											41
4							.05	.02																	.07		4
44																											44
47																											47
Sums							.05	.02	.01	.01									.05						.14		Sums
																									.02		Mean of Sums
Means							.01												.01						.02		Sum of Means

Form SCS-370

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U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Project No. SCS-IA-1
Shenandoah, Iowa.

Dates
STATION June 18 & 20, 1940 DATA Hourly precipitation from recording gages.

DATE / Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID T	SUM	MEAN	DATE / Sta. No.
	Stations listed in each watershed by location North to South.																										
	West Tarkio Creek Watershed																										
	June 18, 1940																										
22																											22
20																											20
16																											16
9																											9
21																											21
23																											23
Sums																											Sums
																											Mean of Sums
Means																											Sum of Means
	Tarkio River Watershed																										
33																											33
1																											1
36																											36
38																											38
41																											41
4																											4
44																			.03						.03		44
47																				.03					.03		47
Sums																			.03	.03					.06		Sums
																									.01		Mean of Sums
Means																											Sum of Means
SUMS																											SUMS
MEANS																											MEANS

DATE / Sta. No.	A. M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P. M. 1	2	3	4	5	6	7	8	9	10	11	MID T	SUM	MEAN	DATE / Sta. No.
	West Tarkio Creek Watershed																										
	June 20, 1940																										
22					.01	.01	.02	.04				.01		.01		.08									.18		22
20					.02	.06	.01	.06							.07		.02								.24		20
16					.01	.06	.03	.10						.10	.07										.37		16
9						.09	.14	.08	.17	.03	.01	.03	.18	.04											.77		9
21				.01	.01	.17	.13	.14	.14		.02	.05	.06												.73		21
23			.01	.03	.16	.15	.14	.13	.12	.01	.02	.05			.01										.83		23
Sums			.01	.04	.21	.54	.47	.55	.43	.04	.05	.14	.24	.15	.15	.08	.02								3.12		Sums
																									.52		Mean of Sums
Means				.01	.04	.09	.08	.09	.07	.01	.01	.02	.04	.02	.02	.01									.51		Sum of Means
	Tarkio River Watershed																										
33					.01																				.01		33
1								.05									.12								.17		1
36							.01	.04		.01						.02	.03								.11		36
38						.04		.05	.03							.10									.22		38
41					.02	.10		.10							.06										.28		41
4						.06	.10	.03	.10						.07										.41		4
44						.03	.13	.03	.10	.04					.04										.37		44
47						.07	.09	.07	.14	.04		.01	.02												.44		47
Sums					.03	.30	.33	.42	.37	.09		.01	.02		.17	.12	.15								2.01		Sums
																									.25		Mean of Sums
Means						.04	.04	.05	.05	.01					.02	.02	.02								.25		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Form SCS-376

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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CLIMATIC DATA SHEET

Project No. SCS-JA-1
Shenandoah, Iowa.

Dates June 22 & 23, 1940 DATA Hourly precipitation from recording gages.

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
Stations listed in each watershed by location North to South.																											
West Tarkio Creek Watershed																											
June 22, 1940																											
22													.14	.48		.01			.01						.64		22
20													.37	.06											.43		20
16													.01												.01		16
9												.03													.03		9
21																											21
23											.03														.03		23
Sums											.03	.03	.52	.54		.01			.01						1.14		Sums
																									.19		Mean of Sums
Means													.09	.09											.18		Sum of Means
Tarkio River Watershed																											
33													.04	.04	.77										.85		33
1														.23	.07										.30		1
36													.10	.30	.03			.01							.43		36
38													.19	.07	.06										.32		38
41													.03												.03		41
4																	.07								.07		4
44																											44
47																											47
Sums													.36	.64	.92		.07	.01							2.00		Sums
																									.25		Mean of Sums
Means													.04	.08	.12		.01								.25		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Sta. No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta. No.
West Tarkio Creek Watershed																											
June 23, 1940																											
22	.01	.81	.53	.14	.09	.01																			1.59		22
20	.08	.09	.49	.19	.01																				.86		20
16		.01	.20	.04																					.25		16
9			.34	.04	.01									.02	.02										.43		9
21				.16	.02		.02								.02										.22		21
23			.03	.06	.04			.01	.01						.02	.01									.18		23
Sums	.09	.91	1.59	.63	.17	.01	.02	.01	.01					.02	.06	.01									3.53		Sums
																									.59		Mean of Sums
Means	.02	.15	.26	.10	.03										.01										.57		Sum of Means
Tarkio River Watershed																											
33			.12	.23	.28									.01	.01										.65		33
1			.23	.64																					.87		1
36			.15	.43	.05																				.63		36
38		.03		.77	.16							.01													.97		38
41			.10	.23																					.33		41
4			.01	.32	.06		.01								.01										.41		4
44				.48	.10	.01		.01																	.60		44
47				.43	.11											.03									.57		47
Sums		.03	.61	3.53	.76	.01	.01	.01				.01		.01	.02	.03									5.08		Sums
																									.64		Mean of Sums
Means			.03	.45	.10																				.63		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Form SCS-376

Project No. SCS-IA-1
Shenandoah, Iowa.

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

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CLIMATIC DATA SHEET

Dates June 27 & 28, 1940 DATA Hourly precipitation from recording gages.

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta.No.
	Stations listed in each watershed by location North to South.																										
	West Tarkio Creek Watershed																										
	June 27, 1940																										
22																					.26	.04			.30		22
20																					.48				.48		20
16																					.60				.60		16
9																					.02	.06			.08		9
21																						.11			.11		21
23																						.20			.20		23
Sums																					1.36	.41			1.77		Sums
																									.30		Mean of Sums
Means																					.23	.07			.30		Sum of Means
	Tarkio River Watershed																										
33																					.10				.10		33
1																					.01	.07			.08		1
36																					.67	.01			.68		36
38																					.68	.01			.69		38
41																					.51				.51		41
4																					.46	.02			.47		4
44																					.20	.01			.21		44
47																						.10			.10		47
Sums																					2.63	.21			2.84		Sums
																									.36		Mean of Sums
Means																					.33	.03			.36		Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Sta.No.	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	Sta.No.
	West Tarkio Creek Watershed																										
	June 28, 1940																										
22								.02																	.02		22
20																											20
16																											16
9																											9
21																											21
23																											23
Sums								.02																	.02		Sums
																											Mean of Sums
Means																											Sum of Means
	Tarkio River Watershed																										
33																											33
1																											1
36																											36
38																											38
41																											41
4																											4
44																											44
47																											47
Sums																											Sums
																											Mean of Sums
Means																											Sum of Means
SUMS																											SUMS
MEANS																											MEANS

Form SCS-326

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U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
HYDROLOGIC DIVISION

CLIMATIC DATA SHEET

Sheet 43 of 43 Sheets

Project No. SCS-IA-1
Shenandoah, Iowa.

STATIONS Nos. 29 & 48 for June, 1940 DATA Hourly precipitation from recording gages Nos. 29 & 48.

Station No. 29

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	DATE
4				.52	.02	.10	.02																		.66		4
11																	.08	.04	.05	.11	.10	.04	.02	.03	.47		11
12	.02	.01	.01											.01	.01										.05		12
13									.10																.10		13
20					.03	.07	.10	.13	.03		.02	.03													.40		20
22													.02			.02									.04		22
23			.15	.24									.01												.40		23
27																						.03			.03		27
SUMS	.02	.01	.16	.76	.05	.17	.12	.13	.13		.01	.03	.03	.01	.01	.02	.08	.04	.05	.11	.10	.12	.02	.03	2.21		SUMS
MEANS																											MEANS

Station No. 48

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	NOON	P.M. 1	2	3	4	5	6	7	8	9	10	11	MIDT	SUM	MEAN	DATE
4				.50	.04	.08	.03																		.65		4
6																.01									.01		6
11																.01	.05	.04	.05	.13	.07	.02	.04	.01	.42		11
12			.01	.01																					.02		12
13									.07																.07		13
18																			.02						.02		18
20						.08	.13	.11	.05	.01		.01		.01	.01										.41		20
22																	.04								.04		22
23				.23	.10																				.33		23
27																					.40				.40		27
SUMS			.01	.74	.14	.16	.16	.11	.12	.01		.01		.01	.01	.01	.09	.04	.07	.13	.47	.02	.04	.01	2.37		SUMS
MEANS																											MEANS

Tabulations of Hydrologic Data

DAILY MINIMUM AND MAXIMUM TEMPERATURES AT CLARINDA, IOWA

1934 to 1940

Project No. SCS-Ia-1
Shenandoah, Iowa

Daily Maximum and Minimum Temperatures
in Degrees Fahrenheit
Recorded at the City of Clarinda, Iowa

1934

Date	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												

Date	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1			100	72	82	65	73	47	49	24	31	16
2			98	70	81	66	72	47	58	32	32	18
3			95	59	73	51	74	49	55	45	35	20
4			106	70	84	48	75	52	55	38	35	19
5			111	75	78	55	80	52	62	35	41	16
6			105	74	69	48	74	49	72	37	30	11
7			104	73	73	42	82	43	73	39	15	1
8			114	73	75	48	78	52	53	32	31	6
9			112	75	83	55	77	51	60	34	28	18
10			106	76	79	59	79	46	51	37	21	8
11			94	67	87	54	86	49	54	25	23	-2
12			95	69	85	68	77	54	58	27	43	14
13			93	66	83	68	78	54	60	34	37	25
14			106	71	79	60	79	51	49	25	30	23
15			90	73	72	44	78	53	62	27	46	28
16			84	68	76	37	80	64	53	41	38	32
17			86	69	77	48	68	45	59	47	36	27
18			107	70	82	50	54	43	60	47	36	30
19			83	62	86	53	63	50	69	46	32	13
20			76	60	80	50	69	53	63	53	46	17
21			87	58	55	41	79	48	55	35	35	28
22			85	59	63	35	73	46	38	25	44	24
23			90	60	73	44	74	55	44	20	41	25
24			60	42	87	66	71	48	54	31	35	23
25			82	41	82	69	67	40	43	38	30	10
26			94	51	71	38	77	43	41	35	15	-1
27			92	59	68	32	63	36	44	34	43	10
28			79	53	65	45	57	25	44	31	37	27
29			80	51	62	45	50	26	34	29	28	15
30			87	60	73	38	60	26	33	26	31	13
31			90	60			52	34			34	22

Project No. SCS-Ne-1
Shenandoah, Iowa

Daily Maximum and Minimum Temperatures
in Degrees Fahrenheit
Recorded at the City of Clarinda, Iowa

1935

Date	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	45	5	32	25	58	29	45	34	68	44	69	61
2	52	25	54	22	55	30	44	32	70	45	77	56
3	38	13	46	22	44	34	42	26	47	39	76	55
4	37	8	49	23	57	32	53	25	54	32	70	45
5	49	28	41	29	55	26	56	39	62	37	70	45
6	56	28	30	23	28	19	50	38	71	43	65	50
7	44	34	28	24	37	8	52	32	72	45	65	39
8	43	35	29	23	42	16	54	29	62	47	75	45
9	39	33	34	22	45	32	50	40	73	42	75	55
10	45	26	42	26	41	35	48	39	76	39	82	63
11	44	25	46	24	41	30	49	38	75	58	81	55
12	43	32	50	27	50	25	57	35	69	56	83	58
13	40	18	39	30	50	33	61	30	56	49	81	64
14	24	10	42	35	78	34	74	45	55	47	86	65
15	26	18	41	32	68	50	48	25	50	45	84	70
16	39	25	39	28	60	29	56	25	56	45	87	66
17	36	17	46	25	46	15	55	45	64	48	80	67
18	35	25	48	32	60	33	57	42	59	49	73	58
19	37	10	50	30	58	43	67	30	56	46	72	48
20	12	-5	47	27	70	40	75	37	55	50	73	58
21	9	-12	55	30	75	45	79	43	73	44	71	59
22	30	0	48	26	83	50	81	46	68	47	80	51
23	22	-7	53	27	78	49	78	57	60	44	82	54
24	16	-2	52	22	79	41	72	58	69	40	78	62
25	44	14	23	7	73	53	75	59	70	44	85	69
26	40	18	22	-2	77	50	70	54	69	57	81	62
27	30	8	37	0	70	32	70	49	74	59	85	60
28	44	21	43	20	57	31	69	47	72	60	86	65
29	24	22			69	39	63	38	74	57	83	65
30	[illegible]	24			49	30	60	31	77	54	80	67
31	[illegible]	24			45	24			71	58		

Date	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	87	62	97	74	62	54	66	40	45	22	42	22
2	90	70	91	74	64	55	73	40	41	36	40	13
3	92	72	90	68	71	56	66	45	41	36	34	24
4	90	70	92	62	70	45	54	26	38	26	35	23
5	94	74	95	62	79	44	55	40	37	21	37	24
6	95	70	95	74	80	52	52	25	51	23	43	36
7	95	69	97	69	80	57	47	37	65	30	45	40
8	92	71	97	69	72	50	63	43	67	33	55	26
9	85	69	104	70	77	50	60	45	59	50	51	27
10	93	73	96	69	80	47	57	30	57	30	45	16
11	93	74	100	66	78	50	59	44	33	23	41	23
12	86	68	87	67	83	52	79	52	39	25	51	24
13	89	59	89	55	86	59	79	63	40	30	42	34
14	92	61	88	60	88	60	75	46	40	34	39	33
15	91	64	92	63	87	62	81	56	38	31	38	32
16	87	64	96	68	82	65	84	65	40	34	41	30
17	94	64	94	69	86	59	79	51	40	36	45	21
18	92	66	97	72	87	61	71	38	44	35	46	20
19	90	69	85	75	89	62	78	42	44	29	38	17
20	91	70	82	70	90	62	70	46	56	22	25	0
21	95	73	85	60	82	57	64	39	49	29	27	13
22	96	70	78	61	83	48	48	37	35	13	43	22
23	93	75	84	58	85	64	54	26	48	21	38	17
24	91	72	85	60	87	60	61	26	56	36	19	5
25	94	75	79	60	79	64	51	33	55	36	24	-3
26	97	69	87	62	70	47	49	44	43	29	17	-5
27	101	73	81	50	61	39	57	46	49	31	15	-2
28	101	73	68	40	70	36	59	33	34	23	20	13
29	99	71	61	53	73	40	70	41	46	22	28	15
30	99	70	70	49	76	50	69	59	51	30	45	17
31	[illegible]	74	64	47			68	28			39	24

Daily Maximum and Minimum Temperatures
in Degrees Fahrenheit
Recorded at the City of Clarinda, Iowa

Project No. SCS-Ia-1
Shenandoah, Iowa

1936

Date	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	39	34	10	-2	48	28	31	20	76	56	89	67
2	35	28	9	-2	52	30	22	17	58	48	72	55
3	38	25	10	8	64	33	40	10	71	39	73	45
4	33	3	9	-16	54	30	64	32	86	55	77	47
5	26	12	7	-23	42	30	35	32	86	56	66	60
6	25	15	18	2	54	21	48	16	85	67	79	59
7	16	8	21	-3	60	27	42	12	80	63	79	58
8	27	14	19	-12	60	31	76	31	80	61	89	59
9	36	8	-1	-18	70	31	66	40	70	58	82	71
10	43	17	10	-14	60	40	64	41	73	55	69	52
11	40	22	6	-8	48	32	70	43	74	55	74	48
12	40	24	10	0	47	28	80	43	66	56	77	51
13	35	6	18	7	46	23	84	43	67	50	84	57
14	42	23	12	-16	64	27	79	56	71	47	87	60
15	25	4	3	-9	56	30	76	50	81	52	91	64
16	18	4	2	-10	53	31	62	35	86	62	95	66
17	23	10	0	-9	60	24	59	30	82	61	94	62
18	20	1	4	-15	68	40	62	26	75	55	85	52
19	10	-16	13	-17	64	35	80	33	81	48	102	72
20	20	-21	20	4	65	27	88	49	79	55	89	71
21	25	3	16	2	59	29	53	32	83	59	83	63
22	23	-15	40	4	72	48	58	27	87	66	76	59
23	-1	-16	49	28	76	55	68	34	75	67	80	53
24	2	-6	52	36	66	32	76	45	69	59	85	51
25	7	-18	46	30	60	26	66	48	74	56	93	57
26	1	-19	36	24	62	42	52	45	84	55	103	74
27	4	-21	31	7	64	22	56	43	84	60	96	70
28	10	-17	50	23	73	37	75	48	83	58	100	62
29	9	-14	47	19	55	30	67	50	84	58	103	73
30	6	-8			40	26	85	59	87	58	85	66
31	6	-17			35	17			88	58		

Date	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	91	67	89	59	85	71	61	42	74	46	35	20
2	89	58	95	61	79	62	64	43	48	26	40	16
3	102	66	89	67	76	60	75	53	34	17	48	26
4	104	73	84	67	84	64	69	59	50	14	32	17
5	100	72	82	63	93	69	79	53	54	25	33	25
6	95	69	84	61	95	72	71	57	41	26	32	-2
7	95	70	84	63	88	68	60	45	40	18	20	-8
8	96	70	93	65	91	60	64	46	42	12	39	19
9	93	71	106	67	88	63	63	56	51	23	35	25
10	100	73	97	68	95	65	62	44	52	19	27	8
11	100	71	95	73	98	73	68	39	63	30	31	2
12	100	72	106	71	74	67	71	42	58	30	41	20
13	103	72	109	81	89	69	70	50	66	24	41	13
14	106	71	105	77	90	69	66	47	61	39	48	24
15	107	74	99	74	84	59	76	54	51	28	41	30
16	105	73	105	70	67	55	67	51	59	21	43	30
17	106	72	107	73	70	48	62	43	61	33	34	28
18	100	76	109	80	75	50	82	44	48	29	33	28
19	102	73	98	74	79	54	76	48	53	28	35	18
20	97	66	93	69	87	59	81	46	72	36	39	20
21	83	61	100	72	90	60	48	36	54	32	37	22
22	100	63	96	69	89	63	45	28	60	20	38	19
23	98	70	98	67	78	66	52	23	45	26	52	24
24	105	70	104	68	75	45	61	28	56	16	56	33
25	112	85	100	76	75	51	58	37	45	18	60	48
26	107	80	98	66	69	52	39	27	37	20	59	43
27	99	75	102	74	57	46	42	20	51	17	45	29
28	98	69	93	65	61	45	61	28	51	33	34	25
29	89	64	83	56	65	48	66	39	47	19	56	33
30	86	60	88	55	72	48	64	34	40	20	53	25
31	89	55	84	60			74	52			33	18

Daily Maximum and Minimum Temperatures
in Degrees Fahrenheit
*Recorded at the City of Clarinda, Iowa

Project No. SCS-Ia-1
Randolph, Iowa

1937

Date	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	40	20	15	-3	44	13	51	32	77	44	80	58
2	37	10	26	3	51	26	51	33	61	41	74	61
3	24	7	27	10	52	34	49	37	56	50	75	57
4	43	17	16	0	46	30	40	32	69	51	73	54
5	36	10	38	4	66	36	45	29	76	48	71	57
6	34	8	38	8	69	33	59	25	78	48	72	47
7	10	0	31	10	64	31	53	42	80	49	76	49
8	6	-4	31	8	50	29	46	35	76	50	67	52
9	10	-8	14	0	32	18	54	31	69	41	60	45
10	24	-2	35	-3	41	25	58	28	73	41	71	49
11	28	6	41	18	41	28	61	33	79	55	70	51
12	25	5	43	32	36	21	70	44	79	46	84	58
13	38	23	40	30	34	23	77	43	60	45	83	60
14	35	3	32	20	30	23	75	59	67	32	80	58
15	13	-2	36	22	32	24	65	39	74	50	77	60
16	28	4	38	13	38	19	74	43	67	50	78	62
17	28	6	43	31	49	28	74	55	77	47	81	60
18	20	3	47	27	58	27	75	43	78	56	86	67
19	25	10	44	30	51	37	75	42	70	51	95	68
20	36	13	36	29	45	30	67	48	86	59	95	73
21	14	-6	34	22	51	26	70	47	73	59	94	70
22	17	-3	30	11	53	35	80	45	73	51	87	63
23	21	-1	35	14	54	37	78	59	78	49	101	69
24	30	10	27	17	52	34	70	37	80	55	102	75
25	24	1	27	6	38	16	45	32	75	62	101	73
26	28	2	32	7	26	17	48	33	80	60	81	65
27	40	15	29	12	30	14	47	35	77	53	83	62
28	34	10	33	12	35	26	58	40	86	59	87	57
29	22	13			47	28	64	47	86	65	82	60
30	23	13			52	34	70	43	80	67	83	53
31	13	-5			53	34			77	64		

Date	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	84	60	92	70	93	70	83	61	73	46	36	20
2	92	53	90	73	94	69	87	53	57	32	43	18
3	97	65	94	74	97	68	81	56	48	17	44	38
4	98	69	90	70	81	66	77	58	50	29	43	21
5	94	65	92	66	79	59	76	57	57	35	23	3
6	98	68	92	69	84	55	63	39	65	35	21	-2
7	96	70	93	72	85	58	66	38	74	39	27	10
8	93	68	96	70	88	66	56	36	68	37	12	-3
9	94	68	91	71	89	62	64	45	69	33	16	-4
10	94	70	94	73	83	66	75	38	69	34	20	-2
11	85	68	87	66	90	48	77	41	59	35	26	1
12	90	67	88	57	78	50	**	39	64	36	32	17
13	90	66	89	67	77	49	49	34	54	38	27	22
14	91	67	94	61	89	51	46	21	41	31	27	21
15	93	70	99	73	79	57	**	**	36	27	33	24
16	89	67	99	71	69	35	45	35	29	17	41	16
17	81	60	92	71	77	40	60	43	30	10	42	18
18	85	62	94	69	86	52	66	41	28	16	38	20
19	83	58	88	68	74	43	55	37	20	11	35	24
20	84	65	80	69	83	45	61	35	15	1	26	17
21	87	65	81	58	94	54	50	32	19	-9	47	17
22	88	68	80	61	98	66	38	26	30	-3	38	26
23	93	68	81	63	85	66	54	16	40	14	29	16
24	78	68	89	66	77	51	67	36	46	26	31	15
25	77	65	92	68	62	42	71	43	54	31	36	14
26	83	56	94	68	66	30	65	38	57	25	42	17
27	82	59	95	69	70	45	64	32	45	17	36	28
28	91	62	92	69	72	47	75	36	26	9	40	21
29	85	65	93	65	77	42	86	44	29	8	45	26
30	88	63	93	66	90	64	72	49	36	15	46	31
31	89	71	92	68			70	45			49	33

*Temperatures for the period September 13, 1937 to June 30, 1941 were recorded at the Conservation Experiment Station of the Soil Conservation Service at Clarinda, Iowa.

**Thermometer out of order.

Daily Maximum and Minimum Temperatures
in Degrees Fahrenheit
Recorded at the Conservation Experiment Station of the SCS at
Clarinda, Iowa

Project No. SCS-Ia-1
Shenandoah, Iowa.

1938

Date	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	44	23	38	6	54	22	38	26	84	57	76	57
2	37	10	44	27	48	35	43	19	86	63	81	52
3	40	25	40	12	41	29	51	24	80	66	80	54
4	49	16	63	30	38	29	50	27	73	49	81	55
5	54	20	68	39	34	20	46	31	63	45	88	56
6	37	16	55	31	36	15	36	28	62	40	83	60
7	18	-2	51	19	51	18	29	25	51	35	76	50
8	19	-5	67	36	63	21	38	27	60	33	76	50
9	25	13	59	23	51	31	51	27	63	40	77	58
10	34	-2	32	20	47	29	58	29	70	42	77	61
11	44	24	39	27	60	27	64	40	67	46	77	55
12	33	19	67	36	72	35	71	34	60	43	78	52
13	41	12	63	22	62	44	79	48	65	37	79	59
14	35	17	34	12	52	33	75	59	65	47	88	62
15	51	16	27	19	60	42	69	54	73	44	79	56
16	47	28	30	22	56	34	61	49	69	55	77	57
17	37	25	30	12	67	22	78	52	75	56	80	57
18	30	22	18	0	65	44	73	48	82	65	83	60
19	30	24	28	2	62	31	67	55	76	60	83	61
20	37	27	34	12	77	36	67	44	73	57	85	62
21	37	30	28	18	84	56	61	39	62	50	86	65
22	54	25	31	18	74	42	62	30	64	43	85	66
23	42	28	27	11	55	31	59	43	66	51	89	65
24	36	17	27	8	70	37	72	47	66	40	96	68
25	19	-2	38	10	69	45	78	47	75	52	90	63
26	19	-8	49	31	56	32	79	57	78	50	76	58
27	20	5	51	32	62	32	75	55	72	56	76	48
28	51	11	47	29	52	39	67	44	79	48	78	52
29	35	20			68	47	77	39	82	55	86	58
30	25	-6			70	35	80	50	80	56	95	71
31	17	-12			46	28			79	60		

Date	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	100	73	96	60	83	60	79	50	77	57	44	27
2	95	67	95	72	74	63	85	55	75	59	45	28
3	99	70	96	73	82	59	90	55	71	41	52	25
4	100	72	93	65	84	56	93	62	43	37	48	31
5	99	67	101	74	81	66	90	61	51	34	34	26
6	91	66	93	64	89	68	76	52	40	28	51	26
7	84	61	92	68	92	68	87	56	32	25	50	30
8	86	63	93	69	93	70	87	55	46	20	42	31
9	94	63	95	74	95	68	85	55	52	30	37	17
10	98	69	99	72	96	67	79	54	59	39	44	29
11	101	69	85	60	87	65	83	61	56	33	38	27
12	102	70	87	56	88	68	78	60	58	45	36	17
13	97	72	97	65	82	66	80	41	47	27	46	13
14	86	62	96	76	75	58	86	56	53	22	40	23
15	93	55	78	68	67	52	90	57	56	27	50	22
16	84	65	77	67	68	43	86	56	61	33	43	26
17	84	62	81	58	67	50	84	54	55	39	38	11
18	91	58	88	62	58	42	70	51	48	29	39	20
19	90	59	93	74	62	34	55	33	60	22	42	19
20	86	59	85	60	71	40	65	33	66	30	39	20
21	88	58	81	59	78	38	79	36	56	23	31	5
22	89	60	93	67	86	48	63	37	27	11	33	20
23	93	57	94	72	89	53	48	31	30	15	37	21
24	95	64	84	67	82	57	64	24	25	6	44	20
25	94	65	85	63	83	52	80	32	40	18	48	22
26	89	65	84	67	91	54	71	44	24	6	41	12
27	92	66	74	60	75	50	75	32	41	5	18	1
28	90	64	80	58	82	48	75	43	50	20	33	11
29	92	64	83	63	86	54	66	41	56	27	28	7
30	84	61	85	67	85	51	73	37	53	21	24	3
31	88	62	85	67			77	48			49	14

Daily Maximum and Minimum Temperatures
in Degrees Fahrenheit
Recorded at the Conservation Experiment Station of the SCS at
Clarinda, Iowa

Project No. SCS-Ia-1
Shenandoah, Iowa

1939

Date	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	57	23	41	24	27	2	59	34	81	47	85	64
2	65	31	28	12	37	15	63	41	71	46	81	64
3	50	35	30	7	44	25	55	35	69	48	75	50
4	58	34	40	20	40	27	58	41	81	54	82	54
5	46	32	47	28	33	24	50	37	81	53	85	56
6	55	27	47	24	37	7	41	25	82	61	86	69
7	48	27	50	21	41	15	55	26	77	56	90	62
8	58	29	22	-2	44	31	56	28	72	54	83	60
9	54	39	18	5	40	23	71	37	83	43	79	59
10	45	26	6	-9	45	31	60	45	74	55	74	51
11	43	21	26	-3	40	34	51	22	68	41	69	51
12	46	22	47	19	48	31	45	19	66	45	74	52
13	38	26	43	27	64	31	55	35	69	38	71	56
14	37	18	39	12	55	28	76	51	82	43	79	58
15	33	9	35	5	31	13	61	47	75	44	85	67
16	20	-4	22	12	33	18	54	45	89	46	89	73
17	26	18	41	-1	32	14	47	31	88	59	88	71
18	28	8	52	23	43	17	37	31	75	59	89	63
19	40	9	46	15	71	34	59	31	82	54	79	65
20	48	28	15	-2	58	30	59	45	79	59	77	62
21	44	27	21	-4	76	33	59	35	88	52	74	62
22	28	5	20	-1	80	43	78	38	82	60	78	61
23	25	15	48	9	81	43	86	56	91	64	82	60
24	33	19	34	11	73	44	83	58	96	70	81	64
25	39	12	34	9	71	51	82	59	89	64	79	65
26	38	23	42	14	63	45	77	49	80	62	78	68
27	45	14	36	23	45	31	77	45	75	59	85	64
28	41	33	30	18	41	29	68	40	78	57	84	65
29	37	28			34	29	72	41	85	54	85	64
30	39	22			54	25	77	44	92	62	81	59
31	34	27			61	37			86	63		

Date	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	81	61	80	71	88	65	74	39	50	29	55	40
2	82	64	85	65	91	68	74	49	37	21	43	30
3	82	66	93	57	102	71	83	56	46	21	44	27
4	88	64	90	59	89	57	85	58	49	20	56	29
5	92	66	89	60	92	60	82	44	54	29	61	33
6	92	75	92	66	102	68	88	47	52	22	71	28
7	89	70	84	65	102	74	87	55	60	35	58	42
8	83	69	73	59	91	59	71	56	54	33	54	24
9	88	63	80	51	88	61	76	54	71	40	62	32
10	85	62	87	62	82	53	65	39	50	37	55	38
11	95	65	77	61	95	60	64	42	63	30	60	31
12	102	73	85	62	95	76	63	35	56	28	55	43
13	98	72	87	57	97	74	55	39	61	29	46	21
14	95	66	86	64	98	68	52	24	65	32	51	20
15	95	70	81	68	98	68	76	37	67	31	58	27
16	91	68	75	68	88	64	61	40	66	33	62	30
17	89	69	83	63	84	61	59	28	54	35	67	30
18	85	69	85	59	83	54	82	41	57	44	56	36
19	85	65	88	62	90	54	76	48	50	39	47	30
20	84	64	79	57	80	58	70	46	49	26	35	18
21	89	69	83	46	82	43	78	42	51	23	32	14
22	80	62	72	58	87	47	72	45	52	19	37	15
23	86	57	86	49	74	55	83	45	58	29	31	21
24	87	66	83	57	83	47	86	50	44	32	32	27
25	89	62	83	59	71	48	72	56	44	32	29	14
26	93	65	87	61	66	37	81	48	41	34	28	20
27	95	68	86	61	79	41	63	36	45	17	25	19
28	87	66	85	60	95	56	55	26	44	20	23	8
29	83	59	93	64	77	38	54	42	54	34	20	6
30	87	60	95	68	62	30	44	20	44	31	28	1
31	91	62	89	69			59	25			12	1

Daily Maximum and Minimum Temperatures
in Degrees Fahrenheit
Recorded at the Conservation Experiment Station of the SCS at
Clarinda, Iowa

Project No. SCS-Ia-1
Shenandoah, Iowa

1940

Date	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	10	-1	37	30	38	31	78	45	52	32	87	58
2	9	-9	32	19	35	31	81	53	66	34	88	62
3	15	-2	25	12	39	31	75	43	66	37	88	61
4	14	10	33	24	33	30	55	35	75	45	82	63
5	2	-17	27	7	57	27	55	31	85	57	86	61
6	15	-3	30	22	44	29	56	31	79	46	88	65
7	19	12	31	19	35	27	49	36	71	52	81	61
8	15	5	32	19	39	30	52	35	69	53	82	60
9	23	-2	20	7	41	30	56	30	69	45	82	61
10	30	19	29	-7	36	23	52	42	74	51	76	59
11	31	16	42	18	31	26	42	21	72	45	69	55
12	21	-4	36	25	29	24	47	17	86	50	72	60
13	20	10	26	11	24	14	61	23	92	57	81	63
14	21	11	38	9	26	14	85	40	83	44	79	60
15	22	6	39	29	48	15	74	54	64	43	86	61
16	14	5	39	32	59	26	65	43	72	38	88	63
17	9	0	33	28	70	38	57	39	65	54	91	65
18	2	-22	35	30	53	32	58	32	58	48	95	64
19	9	-14	33	28	55	33	62	35	73	45	90	59
20	9	-7	31	25	45	26	67	41	80	46	79	54
21	17	-7	29	15	37	30	61	45	72	56	85	60
22	13	-7	30	8	30	19	56	40	75	50	82	70
23	14	-7	35	21	23	14	51	41	77	49	79	63
24	11	-8	32	3	30	13	60	34	71	52	76	52
25	2	-18	24	-3	34	22	54	42	63	45	83	54
26	7	-10	36	19	41	29	57	42	69	41	85	60
27	17	-13	36	22	65	31	61	44	71	47	87	62
28	32	-4	32	27	75	50	67	53	75	47	83	61
29	27	13	48	24	69	35	65	51	77	54	82	52
30	25	1			76	40	60	39	81	48	94	62
31	37	9			72	42			82	58		

Tabulations of Hydrologic Data

STREAM DISCHARGE AND SUSPENDED MATTER

1937 to 1940

June, 1934

Date	Tarkio River (200 sq.mi.) Mean Daily Discharge C.F.S.	Mean Daily Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	Maximum Rate of Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge Time	Suspended Matter Tons per Day	West Tarkio Creek (105 sq.mi.) Mean Daily Discharge C.F.S.	Mean Daily Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	Maximum Rate of Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge Time	Suspended Matter Tons per Day
1	.13	.00065				.02	.02	.00019				.003
2	.19	.00095				.02	.07	.00067				.01
3	.19	.00095				.02	.02	.00019				.003
4	.13	.00065				.02	.07	.00067				.01
5	.13	.00065				.02	.14	.00133				.02
6	.13	.00065				.01	.07	.00067				.01
7	.36	.0018				.04	.04	.00038				.004
8	5.12	.0256				646.	12.9	.1226	179.	1.701	11:15P	2,110.
9	21.3	.1065	148.	.84	12:30A	1,110.	19.3	.1835				1,710.
10	1.38	.0069				5.3	.91	.00865				2.8
11	.48	.0024				.9	.33	.00315				1.0
12	.36	.0018				.2	.07	.00067				.1
13	.13	.00065				.04	.14	.00133				.05
14	.38	.0019				.08	.51	.00486				.4
15	.48	.0024				.1	.39	.00371				.06
16	.48	.0024				.09	.22	.00209				.03
17	.75	.00375				.1	.39	.00371				.05
18	.75	.00375				.1	.14	.00133				.01
19	.92	.0046				.1	.12	.00114				.02
20	.26	.0013				.03	.10	.00095				.01
21	.25	.0013				.03	.05	.00475				.01
22	14.3	.0715	52.	.26	3:00P	455.	2.05	.0196				1.0
23	16.7	.0835				300.	.65	.00619				1.1
24	5.12	.0256				24.	.65	.00619				.9
25	2.38	.0119				6.7	1.05	.01000				1.4
26	.92	.0046				1.0	.92	.00875				1.2
27	.36	.0018				.2	.43	.00410				.5
28	.26	.0013				.1	.37	.00352				.3
29	.19	.00095				.03	.13	.00124				.03
30	.09	.00045				.01	.16	.00152				.1
Total						2,610.26						3,831.18
Mean	2.49	.0125					1.02	.00975				
[illegible]	21.3	[illegible]					[illegible]	[illegible]				
[illegible]	.09	[illegible]					[illegible]	[illegible]				

July, 1934

1	.13	.00065				.008	.13	.00124				.03
2	.06	.0003				.003	.09	.000858				.004
3	.26	.0013				.003	.05	.000476				.01
4	.26	.0013				.01	.06	.000572				.01
5	2.04	.0102				12.	.21	.00200				.09
6	3.60	[illegible]				5.	.15	.00124				.1
7	2.04	.0102				5.7	.06	.000572				.008
8	1.13	.00565				3.5	.08	.000762				.008
9	.60	.0030				1.0	.06	.000762				.01
10	.48	.0024				.5	.43	.00410				.2
11	.48	.0024				.1	.21	.00200				.03
12	.26	.0013				.06	.10	.000952				.01
13	.26	.0013				.02	.10	.000952				.02
14	.26	.0013				.02	.10	.000952				.03
15	.19	.00095				.01	.13	.00124				.03
16	.09	.00045				.005	.03	.000352				.02
17	.06	.0003				.002	.05	.000476				.01
18	.13	.00065				.01	.03	.000286				.005
19	.04	.0002				.002	.01	.000095				.002
20	.04	.0002				.002	.01	.000095				.002
21	.04	.0002				.002	.01	.000095				.002
22	.04	.0002				.002	.01	.000095				.001
23	.04	.0002				.002	.01	.000095				.002
24	.09	.00045				.005	.01	.000095				.002
25	0	0				0	.01	.000095				.002
26	.09	.00045				.01	.02	[illegible]				.004
27	.06	.0003				.003	.03	[illegible]				.004
28	.06	.0003				.003	.03	[illegible]				.005
29	.06	.0003				.001	.03	[illegible]				.003
30	.05	.00025				.001	.03	[illegible]				.004
31	.05	.00025				.001	.02	[illegible]				.003
Total						[illegible]						.681
Mean	.719	[illegible]					[illegible]	[illegible]				
Max.	3.60	[illegible]					[illegible]	[illegible]				
Min.	0	0					[illegible]	[illegible]				

[illegible] 1931

Date	Tarkio River (200 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day	West Tarkio Creek (100 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons per Day
1	.11	.00055				.005	.03	[illegible]				.005
2	.06	.0003				.002	.10	.00051				.01
3	.04	.0002				.001	.03	.00036				.003
4	.09	.00045				.001	.05	.000476				.008
5	.09	.00045				.002	.04	[illegible]				.005
6	.09	.00045				.005	.04	[illegible]				.005
7	.16	.0003				.02	.03	.000266				.003
8	.04	.0002				.001	.03	.000256				.003
9	.03	.00015				.001	.09	.000391				.005
10	.03	.00015				[illegible]	.02	[illegible]				.005
11	.09	.00045				.001	.04	.000380				.005
12	.11	.00055				.003	.04	.000380				.005
13	.13	.00065				.003	.05	.000476				.01
14	.09	.00045				.003	.05	.000476				.01
15	.11	.00055				.005	.10	[illegible]				.01
16	.23	.00065				.01	.06	.000761				.01
17	.22	.00055				.008	.06	.000570				.008
18	.11	.00055				.005	.06	.000570				.008
19	.09	.00045				.005	.05	.000476				.005
20	.09	[illegible]				[illegible]	.06	[illegible]				.005
21	.11	.00055				.003	.07	[illegible]				.005
22	.09	.00045				.005	.04	[illegible]				.003
23	.09	.00045				.005	.04	[illegible]				.005
24	.09	.00045				.002	.04	[illegible]				.002
25	.09	[illegible]				.003	.04	[illegible]				.002
26	.09	.00045				.003	.05	[illegible]				.003
27	.09	.00045				.005	.06	[illegible]				.003
28	.07	.00035				.004	.04	[illegible]				.005
29	.06	.0003				.005	.04	[illegible]				.003
30	.06	.0003				.002	.04	[illegible]				.003
31	5.62	[illegible]	53.	.29	11:00P	43.	.12	[illegible]				[illegible]
Total						[illegible]						.176
Mean	.277	[illegible]					[illegible]	[illegible]				
Max.	5.62	[illegible]					.10	[illegible]				
Min.	.02	[illegible]					.02	[illegible]				

[illegible] 1931

1	27.5	.1375	32.	.16	10:00P	222	1.45	.0123				.2
2	12.1	.0605				78	2.15	.0204	17.	.142	9:45P	7.4
3	4.34	.0207				12	1.25	.0120	5.8	.055	11:30P	8.0
4	17.7	.0845	26.	.13	7:00A	76	3.70	.0353				18.
5	4.70	.0225				36	.63	[illegible]				1.2
6	1.37	[illegible]				3.9	.10	[illegible]				.4
7	.63	.0032				1.2	.13	[illegible]				.1
8	.43	[illegible]				.6	.10	[illegible]				.05
9	.37	[illegible]				.2	.10	[illegible]				.05
10	.56	.0028				.3	.26	[illegible]				.2
11	.27	.00135				.09	.10	[illegible]				.05
12	.23	.00115				.04	.08	.000762				.02
13	.16	.0008				.07	.05	.000476				.02
14	.16	.0008				.06	2.89	.0256				38.
15	.22	.00115				.1	42.0	.400	111.	1.06	3:45A	86.
16	10.1	.0505	14.	.07	12:00M	34.	5.85	.0551				23.
17	6.56	[illegible]				27.	1.89	.0180				4.2
18	2.51	.01255				7.6	1.72	.0164				2.4
19	.89	.00445				2.5	1.10	.0105				1.9
20	.49	.00245				1.1	.65	[illegible]				1.0
21	.49	.00245				.7	.65	[illegible]				.7
22	.37	.00185				.5	.37	.00352				.4
23	.27	.00135				.2	.26	[illegible]				.2
24	.23	.00115				.0	.16	[illegible]				.1
25	.27	.00135				.1	4.57	.0473				85.
26	76.8	.384	142.	.91	5:00P	[illegible]	[illegible]	[illegible]	171.	1.63	4:00A	1,[illegible]
27	5.9	.0245				336	15.4	.147				58.
28	26.0	.130				102	16.6	.158	45.	.427	6:10P	142.
29	31.8	.159	43	.215	10:30A	136	9.85	[illegible]				54.
30	13.2	.0665				52	5.50	[illegible]				17.
Total						2,112.35						2,591.39
Mean	9.65	[illegible]					6.57	[illegible]				
Max.	76.8	[illegible]					42.5	[illegible]				
Min.	.16	[illegible]					.02	[illegible]				

October, 1934

Date	Tarkio River (200 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day	West Tarkio Creek (105 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day
1	7.02	.0351				15.	3.96	.0376				7.6
2	3.52	.0176				5.5	2.23	.0222				3.5
3	1.72	.0086				2.7	1.32	.0126				1.8
4	1.03	.00515				1.7	.92	.00875				1.1
5	.72	.0036				.8	.57	.00542				.7
6	.56	.0028				.4	.31	.00296				.3
7	.37	.00185				.2	.21	.00200				.2
8	.27	.00135				.1	.16	.00152				.1
9	.23	.00115				.1	.13	.00124				.04
10	.23	.00115				.04	.13	.00124				.03
11	.23	.00115				.04	.10	.000951				.02
12	.23	.00115				.02	.08	.000761				.01
13	.19	.00095				.02	.08	.000761				.01
14	.19	.00095				.01	.03	.000761				.01
15	.19	.00095				.02	.08	.000761				.005
16	.27	.00135				.03	.06	.000571				.005
17	.27	.00135				.03	.06	.000571				.005
18	.49	.00245				.05	.21	.00200				.02
19	216.	1.08	496.	2.48	8:00P	5,260.	594.	3.75	1200.	11.42	6:30A	22,300.
20	147.	.692				1,610.	76.	.723	217.	2.06	6:00A	1,160.
21	33.0	.165				181.	13.9	.132				54.
22	10.9	.0545				38.	9.52	.0906				21.
23	5.25	.00525				13.	11.8	.112	92.	.876	7:00A	156.
24	2.87	.01435				5.2	3.70	.0352				5.5
25	1.43	.00715				2.7	2.06	.0196				1.9
26	1.[illegible]	.0068				1.8	1.22	.0116				1.0
27	.80	.0040				.7	.92	.00875				.8
28	.64	.0032				.3	.57	.00543				.4
29	.56	.0028				.2	.43	.00410				.3
30	.49	.00245				.09	.50	.00476				.3
31	.49	.00245				.2	.43	.00409				.2
Total						7,154.95						24,516.86
Mean	14.0	.0701					7.0	.0667				
Max.	216.	1.08					594.	3.75				
Min.	.19	.00095					.04	.00571				

November, 1934

1	.43	.00215				.1	.31	.00295				.05
2	.43	.00215				.2	.37	.00352				.1
3	31.8	.159	85.	.425	9:30P	281.	14.6	.139	30.	.286	7:00A	171.
4	31.8	.159				172.	4.74	.0451				19.
5	8.00	.0410				22.	1.53	.01502				2.7
6	3.71	.0255				5.0	1.20	.01141				1.1
7	2.76	.0153				4.7	1.01	.00962				.8
8	1.83	.0090				2.0	.83	.00790				.4
9	1.23	.00615				.8	.74	.00704				.3
10	.92	.00435				.4	.65	.00619				.1
11	.89	.00415				.2	.65	.00619				.05
12	.72	.0036				.2	.65	.00619				.04
13	.72	.0036				.1	.65	.00619				.03
14	.72	.0036				.2	.50	.00475				.02
15	.72	.0036				.1	.37	.00352				.02
16	.72	.0036				.2	.43	.00409				.02
17	2.76	.0153				11.	1.68	.0160	8.2	.0781	8:45P	10.
18	13.0	.0650	20.	.10	11:30A	71.	3.96	.0377				15.
19	4.89	.0245				13.	1.58	.01502				1.3
20	10.7	.0535				35.	5.00	.0476	8.5	.0810	12:30P	5.1
21	17.5	.0875	28.	.14	3:00A	68.	6.76	.0643	30.	.286	11:30P	41.
22	35.6	.178	57.	.285	12:00N	278.	12.3	.1170				190.
23	11.4	.057				56.	3.46	.0329				9.8
24	6.40	.0320				15.	3.00	.0286				3.7
25	6.40	.0320				15.	5.05	.0480				28.
26	30.4	.152	41.	.205	11:00A	164.	9.35	.0893	17.	.162	2:30A	70.
27	17.2	.086				70.	10.9	.1038	51.	.486	11:15P	130.
28	15.4	.077				69.	9.56	.0910				95.
29	8.70	.0435				17.	3.70	.0352				4.3
30	3.28	.01635				5.7	1.53	.01502				1.4
Total						1,376.90						710.34
Mean	9.06	.0453					3.50	.0332				
Max.	35.6	.178					14.6	.139				
Min.	.43	.00215					.31	.00295				

[illegible], 1934

Date	Tailwater (200 sq. ft.)						West Tailwater (1[illegible] sq. ft.)					
	Mean Daily Discharge		Instantaneous Rate of Discharge			Suspended Matter	Mean Daily Discharge		Instantaneous Rate of Discharge			Suspended Matter
	C.F.S.	C.F.S. per sq. ft.	C.F.S.	C.F.S. per sq. ft.	Time	Tons per Day	C.F.S.	C.F.S. per sq. ft.	C.F.S.	C.F.S. per sq. ft.	Time	Tons per Day
1	3.66	.0183				2.9	2.23	.0212				1.1
2	3.66	.0183				2.5	3.65	.0278				1.4
3	4.00	.0315				2.3	2.00	.0268				.8
4	5.25	.0325				1.4	2.80	.0268				.5
5	3.93	.0165				.8	2.61	.0248				.4
6	2.55	.0175				.3	1.78	.0154				.2
7	3.36	.0140				.4	1.45	.0138				.1
8	2.98	.0275				.3	1.45	.0128				.05
9	2.76	.0128				.2	1.45	.0138				.06
10	2.15	.0175				.2	1.01	.00961				.04
11	1.57	.0155				.07	.74	.00705				.02
12	1.26	.0126				.03	.83	.0079				.01
13	1.97	.0195				.05	1.10	.0105				.02
14	2.45	.0125				.1	1.32	.0126				.03
15	3.23	.0150				.2	1.39	.0130				.04
16	6.[illegible]	.0[illegible]				1.2	4.22	.0405				.9
17	9.00	.0090				2.4	4.48	.0427				.6
18	8.20	.0090				1.5	3.96	.0378				.4
19	6.40	.0[illegible]				1.1	4.22	.0402				.4
20	[illegible]	[illegible]				.6	2.10	.0086				.3
21	4.[illegible]	.0[illegible]5				.7	2.[illegible]	.0[illegible]				.2
22	4.[illegible]	.0[illegible]5				.5	2.00	.0086				.1
23	5.60	.0[illegible]1				1.1	3.46	.0[illegible]				.7
24	5.00	.0[illegible]1				.9	2.42	.0231				.3
25	3.[illegible]	[illegible]				.4	1.53	.0[illegible]				.1
26	4.00	[illegible]				.4	1.01	.0[illegible]01				.02
27	1.[illegible]	.0[illegible]5				.05	.50	.00176				.003
28	1.26	.0[illegible]				.03	.74	.00705				.01
29	1.[illegible]	.0[illegible]5				.03	.74	.00705				.01
30	1.26	.0[illegible]				.03	.65	.00620				.01
31	1.26	.0[illegible]				.03	.74	.00705				.02
Total						22.[illegible]						5.35
Mean	3.[illegible]	.0[illegible]5					2.43	.0188				
Max.	9.[illegible]	.0[illegible]					4.48	.0427				
Min.	1.[illegible]	.0[illegible]5					.50	.00476				

[illegible], 1925

Date	Tarkio Creek (200 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons per Day	West Tarkio Creek (105 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons per Day
1	1.10	.0055				.02	.57	.00542				.003
2	1.23	.00615				.02	.74	.00705				.06
3	1.35	.00675				.02	.74	.00705				.02
4	1.31	.00655				.01	.50	.00476				.003
5	1.23	.00615				.02	.74	.00705				.003
6	1.09	.00545				.03	1.10	.01045				.03
7	3.41	.01705				.07	1.59	.01510				.1
8	8.20	.0410				1.4	4.43	.04217				1.1
9	8.20	.0410				2.4	5.90	.05619				.8
10	5.35	.02675				1.0	2.50	.02381				.5
11	4.95	.02475				.6	2.58	.02457				.7
12	6.82	.03410				1.3	5.42	.05162				1.2
13	5.96	.02980				1.7	4.74	.04514				2.1
14	3.41	.01705				.5	1.50	.01429				.2
15	2.47	.01235				.3	1.45	.01381				.06
16	1.[illegible]	.[illegible]				.[illegible]	1.[illegible]	.[illegible]				.0[illegible]
17	2.55	.01275				.6	1.83	.01743				.08
18	5.18	.0259				.09	3.[illegible]	.0[illegible]				21.
19	617.	3.085	1350.	6.25	11:[illegible]	13,[illegible]	[illegible]	1.46	600.	5.70	5:00A	5,370.
20	10[illegible]	[illegible]				3[illegible]	[illegible]	[illegible]				1[illegible]
21	1[illegible]	[illegible]				1[illegible]	[illegible]	[illegible]	207.	2.[illegible]	4:[illegible]	77.
22	1[illegible]	[illegible]				11.	1[illegible]	[illegible]	1[illegible].	1.14	[illegible]	31.
23	2[illegible]	[illegible]				10.	[illegible]	[illegible]				11.
24	1[illegible]	[illegible]				5.7	[illegible]	[illegible]				5.0
25	4[illegible]	[illegible]				2.[illegible]	[illegible]	[illegible]	67.	[illegible]	8:3[illegible]	2.0
26	[illegible]	[illegible]				1.[illegible]	[illegible]	[illegible]				3.1
27	[illegible]	[illegible]				1.4	[illegible]	[illegible]				1.0
28	3.03	.01515				.6	.[illegible]	[illegible]				.7
29	3.03	.01515				.9	[illegible]	[illegible]	32.	.305	8:00A	2.3
30	3.41	.01705				.4	3.00	.0286				2.4
31	3.18	.0159				.3	2.68	.0255				1.4
Total						11,[illegible]						5,[illegible]2.55
Mean	20.3	.1015					[illegible]	.0[illegible]				
Max.	617.	3.085					[illegible]	1.[illegible]				
Min.	1.10	.0055					.50	.00475				

F[illegible], 1925

1	2.97	.02185				.3	3.00	.0255				1.7
2	2.97	.02185				.3	5.00	.0352	17.	.162	7:00P	3.3
3	4.55	.03375				.7	6.40	.0459				2.0
4	6.82	.0341				1.4	5.00	.0475				1.1
5	9.35	.04675	10.	.05	5:00A	1.9	[illegible]	.0451				2.3
6	6.40	[illegible]				.5	[illegible]	.0451				3.1
7	4.89	.02445				.5	3.66	.0377				2.9
8	5.25	.02625				.6	2.61	.0249				1.7
9	5.62	.0281				.5	2.42	.0230				1.4
10	4.55	.02275				.5	2.61	.0249				1.9
11	6.40	.0320				1.1	2.50	.0239				1.6
12	7.72	.0386				3.0	3.45	.0329				2.6
13	7.72	.0386				5.9	4.43	.0426				2.7
14	121.	.605	700.	3.53	7:30P	6,[illegible]	[illegible]	.167	32.	.304	10:30A	140.
15	179.	.895				4,[illegible]	18.6	.177				68.
16	48.3	.2415				371.	47.9	.456	67.	.638	7:30A	401
17	16.3	.084				49.	23.2	.221				105.
18	14.2	.071				30.	14.0	.133				57.
19	8.70	.0435				14.	10.3	.0980				55.
20	4.89	.02445				6.1	6.03	.0575				35.
21	6.00	.0300				4.9	5.00	.0500				13.
22	5.25	.02625				4.0	5.00	.0476				8.9
23	4.23	.02115				3.1	2.61	.0249				3.4
24	.80	.0040				.4	2.42	.0230				3.2
25	.99	.00495	3.9	.0195	12:00N	.4	.72	.00685				.2
26	1.87	.00935				.05	[illegible]	[illegible]				.0[illegible]
27	.89	.00445				.03	.31	.00296				.02
28	1.89	.00945				.05	1.89	.0180				.1
Total						11,470.[illegible]						928.16
Mean	17.5	.0875					7.40	.0705				
Max.	179.	[illegible]					47.9	.456				
Min.	.80	.0040					.[illegible]	[illegible]				

March, [illegible]

Date	Turkle River (200 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day	West Turkle Creek (155 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day
1	9.25	.04625				3.9	8.75	.0403	17.	.162	7:00P	3.0
2	37.6	.188	70.	.35	11:00P	227.	13.9	.132	24.	.228	5:00P	99.
3	56.0	.280				591.	12.4	.118				64.
4	45.4	.227				318.	15.9	.152				62.
5	44.6	.223				720.	13.2	.126				43.
6	12.3	.0615				61.	7.43	.0724				18.
7	4.55	.02275				8.2	3.95	.0377				5.3
8	5.25	.02625				6.2	6.10	.0580				7.9
9	7.72	.0386				4.9	5.50	.0531				4.9
10	13.1	.0655	15.	.075	5:00P	10.	5.52	.0525				5.6
11	13.1	.0655				9.7	4.72	.0450				3.6
12	8.20	.0410				3.8	3.66	.0345				1.4
13	9.25	.04625				3.9	4.22	.0402				1.6
14	7.36	.0363				2.7	4.22	.0402				1.0
15	5.62	.0281				3.9	3.46	.0330				1.4
16	5.62	.0281				1.9	4.22	.0402				.9
17	3.66	.0183				.6	2.61	.0243	18.	.171	11:30A	.5
18	7.72	.0386	9.8	.049	8:00P	2.5	3.70	.0352				1.9
19	7.72	.0386				2.8	3.46	.0330				.9
20	6.70	.0335				2.1	3.00	.0285				.3
21	4.55	.02275				.8	2.51	.0239				.2
22	3.66	.0183				.3	2.23	.0212				.1
23	2.96	.0148				.1	1.72	.0164				.03
24	2.35	.01175				.03	1.45	.0138				.04
25	2.35	.01175				.05	1.72	.0164				.06
26	2.15	.0107				.03	1.20	.0114				.06
27	1.83	.00915				.2	1.01	.00962				.1
28	1.55	.0078				.02	.83	.00790				.03
29	1.10	.0055				.05	.65	.00618				.02
30	1.20	.0055				.07	.65	.00618				.07
31	1.10	.0055				.03	.65	.00618				.2
Total						1,936.10						334.17
Mean	1.29	.0065					4.21	.0401				
Max.	2.36	.0118					13.9	.132				
Min.	1.10	.0055					.65	.00618				

April, 1935

1	1.36	.0068				.02	.83	.00790				.01
2	1.51	.00755				.02	.74	.00705				.02
3	1.36	.0068				.02	.74	.00705				.02
4	1.23	.00615				.02	.74	.00705				.01
5	1.36	.0068				.03	1.20	.0114				.04
6	1.67	.0085				.02	1.20	.0114				.02
7	3.41	.01705				.5	2.80	.0266	3.2	.0305	6:00A	.6
8	4.55	.02275	5.2	.026	2:00P	.1	1.58	.0150				.08
9	3.66	.0183				.07	1.58	.0150				.06
10	3.66	.0183				.1	2.42	.0230				.6
11	4.23	.02115				.3	2.42	.0230				.3
12	3.93	.01965				.2	1.72	.0164				.05
13	2.97	.01485				.05	1.20	.0114				.03
14	2.55	.01275				.05	1.01	.00962				.04
15	1.36	.0068				.02	.65	.00618				.02
16	1.36	.0068				.01	.65	.00619				.02
17	1.10	.0055				.02	.74	.00705				.04
18	1.23	.00615				.02	.83	.00790				.03
19	1.36	.0068				.02	.83	.00790				.03
20	1.23	.00615				.02	.74	.00705				.02
21	1.23	.00615				.01	.57	.00542				.02
22	.99	.00495				.02	.43	.00409				.03
23	.89	.00445				.02	.31	.00295				.02
24	.89	.00445				.01	.50	.00476				.03
25	.89	.00445				.01	.57	.00542				.06
26	.64	.0032				.01	.37	.00352				.02
27	.64	.0032				.01	.26	.00248				.01
28	.72	.0036				.02	.50	.00476				.03
29	.72	.0036				.01	.50	.00476				.03
30	.64	.0032				.007	.37	.00352				.02
Total						1,734.						2.31
Mean	1.57	.0078					.957	.00911				
Max.	4.55	.02275					2.42	.0230				
Min.	.64	.0032					.26	.00248				

May, 1935

Date	Tarkio River (200 sq. mi.) Mean Daily Discharge C.F.S.	Mean Daily Discharge C.F.S./sq. mi.	Maximum Rate of Discharge C.F.S.	Maximum Rate of Discharge C.F.S./sq. mi.	Time	Suspended Matter Tons per Day	West Tarkio Creek (155 sq. mi.) Mean Daily Discharge C.F.S.	Mean Daily Discharge C.F.S./sq. mi.	Maximum Rate of Discharge C.F.S.	Maximum Rate of Discharge C.F.S./sq. mi.	Time	Suspended Matter Tons per Day
1	.97	.00485				.64	.60	.00387	1.97	.0127	7:00P	.2
2	1.63	.00815				.66	1.32	.00852				.1
3	1.03	.00515				.06	.74	.00477				.03
4	1.53	.00765				.64	.57	.00368				.03
5	1.[illegible]	[illegible]				.64	.[illegible]	[illegible]				.02
6	1.10	[illegible]				.60	.37	.00238				.02
7	.99	.00495				.05	.37	.00238				.03
8	.99	.00495				.03	.50	.00323				.04
9	.89	.00445				.02	.43	.00277				.03
10	.72	.00360				.04	.26	.00168				.02
11	.60	.00300				.1	.83	.00535	16.	.152	9:30P	27.
12	3.18	.0159	9.8	.049	7:00P	.6	2.42	.0331				13.
13	18.7	.0935	39.	.195	3:30P	300.	8.86	.0574	22.	.210	4:00A	138.
14	17.8	.089				303.	5.92	.0384				17.
15	9.35	.04675				30.	7.[illegible]	.0448	12.	.114	9:00P	23.
16	15.4	.077	18.	.09	4:00P	51.	6.29	.0406				35.
17	7.72	.0386				30.	3.70	.0239				5.7
18	4.99	.02495				7.8	3.56	.0273				5.1
19	47.6	.238	89.	.445	6:30P	604.	23.5	.224	43.	.410	4:00A	411.
20	1[illegible]	.87	194.	.97	11:00A	2,5[illegible]	9[illegible].0	.912	188.	1.74	5:00P	4,700.
21	[illegible]	.23				[illegible]	[illegible]	[illegible]				289.
22	2[illegible].1	[illegible]				72.	15.4	.147				51.
23	35.5	.1775	75.	.375	12:30A	1[illegible].	12.4	.118				27.
24	1[illegible]	[illegible]				7.[illegible]	7.[illegible]	[illegible]				16.
25	1[illegible].6	[illegible]				[illegible]	6.[illegible]	[illegible]				4.6
26	8.70	[illegible]				7.[illegible]	[illegible]	[illegible]				3.8
27	11.4	.057				8.0	6.[illegible]	[illegible]				4.7
28	36[illegible].	1.[illegible]	824.	4.12	2:00A	2[illegible].	2.[illegible]	2.35	9[illegible].	9.42	4:[illegible]A	17,[illegible]
29	62.6	.313				1,0[illegible]	42.[illegible]	.407				690.
30	36.5	.1825				15[illegible].	1[illegible].9	.189				65.
31	4[illegible].	2.[illegible]	1,9[illegible].	9.60	3:[illegible]	3[illegible]	[illegible]	2.[illegible]	1.[illegible]	1[illegible]	3:[illegible]	3[illegible]
Total						6[illegible]						53,[illegible]
Mean	7[illegible].1	.2[illegible]					[illegible]	[illegible]				
Max.	492.	2.[illegible]					5[illegible].	2.94				
Min.	.72	.0[illegible]					.26	.00148				

June, 1935

1	573.	2.865	1630.	8.30	10:00P	30,100.	499.	4.75	1680.	16.00	7:00P	25,500.
2	554.	2.77				20,8[illegible].	222.	2.12				3,910.
3	144.	.72				2,110.	79.3	.755				386.
4	116.	.58				2,490.	84.5	.805				1,400.
5	85.1	.4255	596.	2.98	11:00P	1,3[illegible].	38.3	.369				2,[illegible]
6	171.	.855				5,300.	15[illegible].	1.47	1030.	9.83	1[illegible]	8,0[illegible]
7	52.2	.261				73.	26.0	.248				37.
8	41.9	.2095				36.	19.9	.190				14.
9	39.7	.1985				34.	17.1	.163				9.5
10	65.8	.329	136.	.63	11:00A	1,3[illegible].	17.7	.169				89.
11	33.5	.1675				100.	13.4	.128				6.2
12	23.8	.119				21.	12.9	.123				4.9
13	20.9	.1[illegible]5				17.	10.5	.100				1.8
14	19.6	.098				27.	9.60	.0914				2.5
15	19.0	.095				3.8	8.50	.0810				1.1
16	18.4	.092				2.8	8.50	.0810				1.1
17	47.3	.2365				2,600.	3[illegible].	3.06	4640	44.2	11:15P	31,800.
18	623.	3.115	1390.	6.95	3:00A	16,4[illegible].	5[illegible].	4.93				15,800.
19	124.	.62				515.	79.3	.755				272.
20	75.7	.3785				172.	57.6	.548				182.
21	66.6	.333				127.	43.5	.414				131.
22	47.4	.237				50.	31.3	.298				33.
23	38.6	.193				35.	24.7	.235				18.
24	172.	.86	463.	2.315	1:00P	5,270.	6[illegible].4	.575	158.	1.49	1:30P	1,[illegible]
25	78.4	.392				1,05[illegible]	[illegible].6	.384				129.
26	655.	3.[illegible]75	1200.	6.00	2:00P	42,[illegible]	[illegible]	6.34	3,490.	33.2	5:30A	54,[illegible]
27	205.	1.025				4,770.	72.6	.690	112.	1.07	6:00P	751.
28	59.8	.299				2[illegible].	49.3	.465				385.
29	45.2	.226				63.	29.[illegible]	.276				6[illegible].
30	80.4	.402	153.	.765	12:30P	1,[illegible]	70.[illegible]	.669	140.	1.41	4:00P	1,[illegible]
Total						1[illegible],6[illegible]						140,[illegible]
Mean	1[illegible].	.[illegible]					[illegible]	1.[illegible]				
Max.	6[illegible]	[illegible]					[illegible]	[illegible]				
Min.	1[illegible]	[illegible]					8.50	.0810				

July, 1935

Date	Nishnabotna River (200 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day	East Nishnabotna Creek (125 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons per Day
1	52.	.26				138.	31.	.296				106.
2	35.	.175				37.	20.	.191				23.
3	29.	.145				22.	16.	.152				13.
4	24.	.12				19.	14.	.133				9.5
5	21.	.105				15.	12.	.114				9.4
6	19.	.095				8.7	11.	.105				8.6
7	18.	.09				9.3	10.	.0952				8.1
8	40.	.20				450.	8.4	.0800				8.0
9	383.	1.915	748.	3.74	6:30A	19,100.	83.	.838	290.	2.76	1:45A	4,030.
10	80.	.40				1,[illegible]00.	73.	.695	133.	1.27	4:00A	1,670.
11	32.	.16				195.	14.	.133				60.
12	28.	.14				37.	12.	.105				21.
13	21.	.105				16.	8.0	.0762				5.2
14	17.	.085				10.	7.2	.0687				3.9
15	13.	.065				4.3	6.5	.0619				2.3
16	11.	.055				2.3	5.8	.0552				1.2
17	9.2	.046				1.2	5.5	.0523				1.6
18	7.7	.0385				1.3	4.6	.0438				.7
19	6.8	.034				.9	4.2	.0400				.9
20	6.0	.030				.9	4.2	.0400				.6
21	5.7	.0285				1.0	3.9	.0372				.5
22	5.4	.0270				1.1	3.7	.0352				.5
23	5.1	.0255				1.1	3.4	.0324				.6
24	13.	.09	45.	.225	9:00P	5.2	5.5	.0524	8.8	.0838	10:00A	4.7
25	21.	.105				60.	3.7	.0352				.4
26	6.8	.034				12.	3.1	.0295				.3
27	4.3	.0215				3.4	2.5	.0238				.2
28	3.9	.0195				1.9	2.2	.0210				.2
29	3.4	.017				1.9	2.1	.0200				.2
30	3.0	.015				1.2	1.9	.0181				.2
31	2.6	.013				1.2	1.6	.0152				.2
Total						21,547.7						5,992.0
Mean	3.[illegible]	.1[illegible]					1.[illegible]	.110				
Max.	383.	1.915					83.	.838				
Min.	2.6	.013					1.6	.0152				

August, 1935

Date	Nishnabotna River Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day	East Nishnabotna Creek Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons per Day
1	2.1	.0105				.8	1.4	.0133				.2
2	1.9	.0095				.5	1.4	.0133				.3
3	2.5	.0125				.4	1.5	.0145				.2
4	2.5	.0125				.3	1.5	.0143				.2
5	2.1	.0105				.3	1.2	.0114				.03
6	1.6	.008				.2	1.0	.00952				.1
7	1.3	.0065				.2	.89	.00848				.08
8	1.2	.006				.2	.79	.00751				.09
9	1.1	.0055				.2	.79	.00751				.1
10	1.1	.0055				.1	1.0	.00952				.1
11	1.1	.0055				.2	.89	.00848				.1
12	.95	.00475				.1	.79	.00751				.1
13	.84	.0042				.09	.60	.00571				.08
14	.63	.00315				.1	.53	.00504				.05
15	.54	.0027				.1	.53	.00504				.04
16	.54	.0027				.09	.53	.00504				.05
17	.84	.0042				.1	.53	.00504				.06
18	1.3	.0065	2.1	.0105	1:00A	.3	.46	.00438				.06
19	.84	.0042				.1	.53	.00504				.05
20	.84	.0042				.1	.79	.00751				.03
21	.73	.00365				.1	.60	.00571				.04
22	1.5	.0075				.2	1.4	.0133	1.8	.0171	1:00P	.1
23	1.8	.009	2.3	.0115	7:30A	.2	1.1	.0105				.06
24	1.3	.0065				.2	.69	.00657				.03
25	1.3	.0065				.1	.60	.00571				.08
26	.95	.00475				.07	.60	.00571				.04
27	.84	.0042				.08	.60	.00571				.02
28	.73	.00365				.09	.46	.00438				.03
29	.63	.00315				.04	.53	.00504				.02
30	.63	.00315				.03	.60	.00571				.02
31	1.1	.0055				.09	1.6	.0152				.09
Total						5.69						2.65
Mean	1.[illegible]	.0[illegible]					.853	.00812				
Max.	2.[illegible]	.0[illegible]					1.6	.0152				
Min.	.5[illegible]	.0[illegible]					.46	.00438				

September, 1935

Date	Turkey River (220 sq. mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq. mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq. mi.	Time	Suspended Matter Tons Per Day	West Turkey Creek (105 sq. mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq. mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq. mi.	Time	Suspended Matter Tons Per Day
1	16.	.03	36.	.18	5:00P	47.	11.	.1048	22.	.210	4:30P	32.
2	18.	.09				43.	4.2	.0400				8.3
3	5.7	.0285				7.0	1.6	.0152				1.0
4	3.5	.0175				1.8	1.2	.0114				.3
5	1.9	.0095				.3	.79	.00752				.04
6	1.3	.0065				.2	.69	.00657				.05
7	1.2	.006				.1	.69	.00657				.05
8	19.	.095	55.	.275	3:00P	234.	2.8	.0266	3.9	.0371	10:30A	.6
9	27.	.135	42.	.21	5:00A	114.	2.4	.0229	4.4	.0419	10:15P	1.3
10	6.8	.034				9.5	2.7	.0257				.4
11	3.4	.017				3.7	1.5	.0143				.2
12	1.9	.0095				.7	1.0	.00952				.08
13	1.5	.0075				.2	.79	.00752				.09
14	1.1	.0055				.2	.79	.00752				.07
15	.84	.0042				.2	.60	.00571				.07
16	9.2	.046	29.	.145	8:30P	24.	6.9	.0657	27.	.257	7:00P	84.
17	6.4	.032				25.	6.5	.0619				29.
18	2.5	.0125				4.5	2.7	.0257				4.1
19	1.3	.0065				1.0	1.2	.0114				1.4
20	.95	.00475				.6	.66	.00628				.6
21	.75	.0038				.4	.52	.00495				.3
22	.63	.0013				.3	.39	.00372				.2
23	.54	.0027				.2	.34	.00324				.2
24	.46	.0023				.1	.29	.00276				.1
25	.65	.00325				.3	.30	.00342				1.8
26	34.	.155	38.	.19	3:30P	110.	2.5	.0143	32.	.305	4:30A	103.
27	15.	.075				45.	2.4	.0229				2.8
28	4.3	.0215				6.5	1.1	.0105				.7
29	2.5	.0125				2.4	.90	.00143				.3
30	1.9	.0095				1.3	.79	.00752				.2
Total						723.5						295.25
Mean	6.24	.0[illegible]2					2.40	.0[illegible]				
Max.	34.	.155					15.	.143				
Min.	.46	.0023					.29	.00276				

October, 1935

1	1.2	.006				.2	.69	.00657				.1
2	.95	.00475				.2	.60	.00571				.06
3	1.1	.0055				.2	.60	.00571				.08
4	.84	.0042				.1	.53	.00505				.06
5	.63	.00315				.09	.53	.00505				.07
6	.54	.0027				.06	.53	.00505				.03
7	.95	.00475				.08	1.0	.00952				.1
8	.95	.00475				.06	1.0	.00952				.09
9	1.1	.0055				.1	.89	.00848				.06
10	1.3	.0065				.1	1.4	.0133				.1
11	2.1	.0105				.1	1.1	.0105				.1
12	1.9	.0095				.2	1.1	.0105				.07
13	1.6	.008				.3	.89	.00848				.1
14	1.6	.008				.2	.89	.00848				.1
15	1.3	.0065				.2	.79	.00751				.08
16	1.3	.0065				.2	1.0	.00952				.4
17	98.	.49	229.	1.145	9:30P	1,520.	21.	.200	41.	.390	9:30A	110.
18	81.	.405				648.	8.9	.0848				16.
19	13.	.065				25.	11.	.105				18.
20	5.4	.027				4.9	7.6	.0724				11.
21	4.3	.0215				2.2	3.9	.0372				3.3
22	3.5	.0175				1.0	2.4	.0228				1.9
23	3.0	.015				.5	1.9	.0181				1.3
24	2.6	.013				.2	1.6	.0152				.6
25	2.6	.013				.1	1.5	.0143				.3
26	2.8	.014				.2	1.6	.0152				.3
27	3.4	.017				.2	1.9	.0181				.3
28	3.0	.015				.2	1.6	.0152				.1
29	2.8	.014				.05	1.5	.0143				.09
30	3.2	.016				.3	1.7	.0162				.1
31	87.	.435	165.	.825	11:30A	1,490.	90.	.856	64.	.442	10:30A	4,070.
Total						3,[illegible]						4,234.9[illegible]
Mean	10.8	.0[illegible]					[illegible]	[illegible]				
Max.	9[illegible]	[illegible]					24.	[illegible]				
Min.	.54	.0[illegible]					.52	.0[illegible]				

[illegible] 1[illegible]

Date	[illegible]	[illegible]	[illegible] (3.0 [illegible]) Maximum Rate of Discharge C.F.S.	C.F.S. per [illegible]	Time	[illegible] Inches	[illegible]	[illegible]	[illegible]	[illegible]	[illegible] (1.0 [illegible]) Imposed Water Table Inches Per Day
	C.F.S.	[illegible]	C.F.S.	C.F.S. per [illegible]	Time		C.F.S.	[illegible]	C.F.S.	[illegible]	
1	[illegible]	[illegible]				919.	28.	.092			81.
2	[illegible]	[illegible]				64.	11.	.005			4.3
3	20[illegible]	1.035	400.	2.04	4:50A	3,770.	115.	1.0[illegible]	464.	4.42	5:00A.	3,9[illegible].
4	1[illegible]	[illegible]				2,450.	[illegible]	.382			195.
5	[illegible]	[illegible]				91.	[illegible]	[illegible]			[illegible]
6	[illegible]	[illegible]				12.	15.	.144			62.
7	15.	[illegible]				8.4	7.6	.0724			16.
8	13	[illegible]				3.5	5.8	.0552			13.
9	[illegible]	[illegible]				2.7	5.2	.0495			8.4
10	[illegible]	[illegible]				2.4	4.4	.0419			4.8
11	8.7	[illegible]				1.7	3.7	.0352			2.5
12	7.7	.0[illegible]				.9	4.2	.0400			1.5
13	8.2	[illegible]				.8	3.9	.0372			.6
14	8.7	[illegible]				.6	3.7	[illegible]			.4
15	7.7	[illegible]				.6	3.9	[illegible]			1.1
16	7.2	[illegible]				.5	3.9	[illegible]			1.1
17	7.9	[illegible]				.4	3.3	[illegible]			.8
18	7.9	[illegible]				.4	3.4	[illegible]			.4
19	8.9	[illegible]				.6	4.4	[illegible]			1.0
20	7.7	[illegible]				.7	3.5	[illegible]			1.0
21	[illegible]	[illegible]				1.2	3.[illegible]	[illegible]			.5
22	5.4	[illegible]				.2	2.7	[illegible]			.1
23	[illegible]	[illegible]				.1	2.5	[illegible]			.0[illegible]
24	[illegible]	[illegible]				.4	2.9	[illegible]			.2
25	[illegible]	[illegible]				.2	3.4	[illegible]			.1
26	1[illegible]	[illegible]				18[illegible]	[illegible]	[illegible]	40.	[illegible]	1[illegible]	[illegible]
27	[illegible]	[illegible]	80.	.445	10:00A	[illegible]	23.	[illegible]				[illegible]
28	[illegible]	[illegible]				1[illegible]	16.	[illegible]				28.
29	[illegible]	[illegible]				2[illegible]	12.	[illegible]				13.
30	[illegible]	[illegible]				14	12.	[illegible]				8.7
[illegible]	[illegible]	[illegible]				7,3[illegible]						[illegible]
[illegible]	[illegible]	[illegible]					12	[illegible]				
[illegible]	[illegible]	[illegible]					11[illegible]	1.[illegible]				
[illegible]	[illegible]	[illegible]					[illegible]	[illegible]				

[illegible] 1[illegible]5

1	[illegible]	[illegible]				5.7	8.9	.0790				3.6
2	[illegible]	[illegible]				1.4	[illegible]	[illegible]				.8
3	1[illegible]	[illegible]				1.7	6.0	[illegible]				1.[illegible]
4	[illegible]	[illegible]				.6	[illegible]	.0552				.6
5	1[illegible]	[illegible]				3.[illegible]	[illegible]	[illegible]				.8
6	2[illegible]	[illegible]				[illegible]	[illegible]	[illegible]				[illegible]
7	2[illegible]	[illegible]				6.8	[illegible]	[illegible]				1.3
8	[illegible]	[illegible]				3.3	7.3	[illegible]				.7
9	1[illegible]	[illegible]				1.6	6.9	.0656				.7
10	1[illegible]	[illegible]				.8	[illegible]	[illegible]				2.5
11	[illegible]	[illegible]				.7	[illegible]	[illegible]				.2
12	[illegible]	[illegible]				.3	[illegible]	.0524				.5
13	1[illegible]	[illegible]				2.4	6.[illegible]	[illegible]				1.[illegible]
14	1[illegible]	[illegible]				1.3	5.[illegible]	.0552				.4
15	[illegible]	[illegible]				.9	4.[illegible]	.0466				.2
16	1[illegible]	[illegible]				1.[illegible]	[illegible]	[illegible]				.1
17	[illegible]	[illegible]				.08	3.9	.0372				.04
18	1[illegible]	[illegible]	50.	.25	7:00A	1.9	4.7	.0447				.3
19	[illegible]	[illegible]				.02	[illegible]	[illegible]				.2
20	[illegible]	[illegible]				.02	[illegible]	[illegible]				.0[illegible]
21	[illegible]	[illegible]				.07	1.[illegible]	.0153				.04
22	3.7	[illegible]				.1	2.1	.0200				.06
23	[illegible]	[illegible]				.2	2.[illegible]	.0238				.04
24	4	[illegible]				.1	2.2	.0210				.05
25	[illegible]	[illegible]				.07	1.8	[illegible]				[illegible]
26	[illegible]	[illegible]				.04	[illegible]	[illegible]				.05
27	3.[illegible]	[illegible]				.04	1.9	[illegible]				.03
28	[illegible]	[illegible]				.04	1.[illegible]	.0153				.04
29	[illegible]	[illegible]				.03	[illegible]	.0143				.04
30	[illegible]	[illegible]				.05	[illegible]	[illegible]				[illegible]
31	[illegible]	[illegible]				.03	[illegible]	[illegible]				.03
[illegible]	[illegible]	[illegible]				37.[illegible]						[illegible]
[illegible]	[illegible]	[illegible]					7.[illegible]	[illegible]				
[illegible]	[illegible]	[illegible]					[illegible]	[illegible]				
[illegible]	[illegible]	[illegible]					[illegible]	[illegible]				

January, 1936

Date	Tarkio River (200 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day	West Tarkio Creek (105 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day
1	4.3	.0215				.07	3.7	.0352				.1
2	5.1	.0255				.07	2.9	.0276				.08
3	6.8	.034				.07	3.7	.0352				.1
4	9.2	.046				.1	4.2	.0400				.08
5	9.2	.046				.1	3.3	.0314				.06
6	9.2	.046				.1	3.1	.0295				.05
7	7.7	.0385				.08	2.8	.0266				.05
8	7.7	.0385				.04	2.7	.0257				.02
9	7.7	.0385				.06	2.9	.0276				.02
10	8.2	.041				.07	2.9	.0276				.02
11	8.2	.041				.09	3.1	.0295				.02
12	8.7	.0435				.09	3.3	.0314				.02
13	8.7	.0435				.09	3.3	.0314				.02
14	7.2	.036				.06	3.1	.0295				.5
15	8.2	.041				.07	3.1	.0295				.5
16	8.2	.041				.07	2.9	.0276				.09
17	8.7	.0435				.02	3.1	.0295				.1
18	8.7	.0435				.05	2.9	.0276				.2
19	8.7	.0435				.05	2.7	.0257				.2
20	8.2	.041				.09	2.5	.0238				.2
21	8.7	.0435				.07	2.7	.0257				.2
22	9.2	.046				.1	3.1	.0295				.03
23	8.7	.0435				.1	3.2	.0304				.2
24	8.7	.0435				.9	3.3	.0314				.02
25	8.2	.041				.07	3.4	.0324				.1
26	7.7	.0385				.2	3.4	.0324				.1
27	7.7	.0385				.2	3.0	.0286				.1
28	8.2	.041				.07	3.0	.0286				.03
29	8.2	.041				.07	3.0	.0286				.03
30	8.6	.043				.02	3.0	.0286				.04
31	8.2	.041				.07	3.0	.0286				.02
Total						3.51						3.43
Mean	8.[illegible]	.0405					3.11	.0296				
Max.	9.2	.046					4.2	.0400				
Min.	4.3	.0215					2.5	.0238				

February, 1936

1	8.2	.041				.04	3.0	.0286				.02
2	8.7	.0435				.05	3.0	.0286				.02
3	8.7	.0435				.02	2.9	.0276				.05
4	8.7	.0435				.09	2.9	.0276				.05
5	8.7	.0435				.1	3.1	.0295				.4
6	8.7	.0435				.1	3.8	.0362				.5
7	9.2	.046				.1	4.4	.0419				.6
8	8.7	.0435				.2	2.5	.0238				.3
9	8.2	.041				.2	2.6	.0248				.3
10	8.2	.041				.2	2.8	.0266				.2
11	7.7	.0385				1.3	2.9	.0276				.2
12	7.2	.036				1.2	2.9	.0276				.2
13	7.2	.036				1.2	3.1	.0295				.2
14	7.2	.036				1.3	3.0	.0286				.1
15	6.8	.034				1.2	2.9	.0276				.1
16	7.7	.0385				.1	2.8	.0266				.1
17	8.2	.041				.1	3.1	.0295				.2
18	8.2	.041				.04	2.9	.0276				.1
19	7.7	.0385				.04	2.8	.0266				.08
20	7.7	.0385				.1	2.8	.0266				.05
21	7.7	.0385				.02	2.8	.0266				.07
22	7.7	.0385				.1	2.8	.0266				.05
23	7.2	.036				.2	2.8	.0266				.2
24	85.	.425				146.	60.	.571				183.
25	782.	3.[illegible]	805.	4.025	8:00A	5,450.	230.	2.19				765.
26	652.	3.26				4,765.	362.	3.4[illegible]	600.	5.71	4:45P	1,900.
27	404.	2.02				1,370.	350.	3.34				977.
28	510.	2.55	1390.	6.95	10:45P	6,040.	334.	3.18	1030.	9.80	9:00P	5,610.
29	844.	4.22	920.	4.60	9:00P	7,650.	392.	3.73	435.	4.13	8:45P	2,940.
Total						28,165.02						12,[illegible]
Mean	[illegible]	[illegible]					[illegible]	[illegible]				
Max.	[illegible]	4.[illegible]					3.[illegible]	[illegible]				
Min.	6.8	.034					2.5	.0238				

March, 1936

Date	Tarkio River (299 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day	West Tarkio Creek (105 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day
1	668.	3.34				5,150.	378.	3.60	600.	5.71	7:00P	3,830.
2	1,180.	5.90	3490.	17.45	9:30	34,300.	430.	4.18	580.	5.52	6:30P	6,090.
3	1,150.	5.75	1740.	8.70	11:30P	36,700.	492.	4.68	1170.	11.12	10:00P	16,000.
4	714.	3.57				29,000.	378.	3.60				9,750.
5	209.	1.045				1,930.	146.	1.39				1,510.
6	144.	.72				770.	75.	.715				335.
7	177.	.885				990.	73.	.695				282.
8	149.	.745				963.	68.	.648				192.
9	121.	.605				518.	57.	.543				127.
10	127.	.635				658.	51.	.486				102.
11	88.	.44				209.	40.	.380				47.
12	56.	.28				74.	33.	.314				28.
13	54.	.27				58.	27.	.257				18.
14	51.	.255				38.	26.	.248				16.
15	47.	.235				29.	23.	.219				11.
16	40.	.20				24.	20.	.190				13.
17	36.	.18				18.	17.	.162				7.8
18	32.	.16				12.	17.	.162				5.8
19	30.	.15				23.	17.	.162				8.3
20	28.	.14				12.	14.	.133				2.0
21	25.	.125				10.	14.	.133				2.5
22	28.	.14				16.	14.	.133				13.
23	738.	3.69	2350	11.75	5:00A	85,100.	21.	.200				122.
24	69.	.345				1,470.	90.	.857	177.	1.69	2:30A	2,880.
25	33.	.165				138.	29.	.190				122.
26	29.	.145				57.	16.	.152				29.
27	23.	.115				32.	13.	.124				10.
28	21.	.105				12.	13.	.124				3.8
29	18.	.09				6.8	11.	.105				2.1
30	15.	.075				5.7	10.	.0952				2.6
31	11.	.055				4.2	4.2	.0400				.6
Total						[illegible]						41,590.5
Mean	192.	.965				[illegible]	84.4	[illegible]				
Max.	1,180.	5.90				[illegible]	490.	4.68				
Min.	11.	.055					4.2	.0400				

April, 1936

Date	Tarkio River Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day	West Tarkio Creek Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day
1	12.	.06				7.6	3.7	.0352				1.8
2	15.	.075	38.	.19	9:30P	5.4	7.1	.0676				2.9
3	14.	.07	32.	.16	2:00P	2.6	4.6	.0438				1.0
4	22.	.11				20.	12.	.114				4.9
5	23.	.115				23	10.	.0952				3.9
6	19.	.095	61.	.305	2:30A	7.3	14.	.133				5.3
7	19.	.095	51.	.255	8:00A	9.6	10.	.0952				4.0
8	15.	.075				5.8	9.3	.0886				2.1
9	14.	.07				2.7	8.9	.0848				1.0
10	14.	.07				1.7	8.9	.0848				.6
11	15.	.075				2.0	8.9	.0848				.4
12	13.	.065				.9	7.8	.0743				.3
13	13.	.065				.8	7.1	.0677				.3
14	12.	.06				.6	6.8	.0649				.3
15	10.	.05				.4	5.8	.0552				.2
16	9.2	.046				.6	5.2	.0495				.3
17	8.4	.042				.2	5.2	.0495				.2
18	8.4	.042				.2	5.2	.0495				.1
19	9.2	.046				.4	5.8	.0552				.1
20	9.5	.0475				.7	6.2	.0590				.4
21	9.5	.0475				.5	5.2	.0495				.6
22	8.4	.042				.4	5.2	.0495				.2
23	8.1	.0405				.1	5.5	.0524				.2
24	8.1	.0405				.1	4.9	.0467				.1
25	7.3	.039				.1	4.9	.0467				.3
26	8.8	.044				.2	6.2	.0590				.2
27	11.	.055				.4	7.1	.0677				.2
28	687.	3.435	4330.	21.65	6:30P	[illegible]	788.	6.92	5310.	50.5	7:15P	124,000.
29	208.	1.04				[illegible]	121.	1.15				14,500.
30	48.	.24				[illegible]	62.	[illegible]	[illegible]	[illegible]	11:[illegible]P	3,250.
Total						[illegible]						141,781.9
Mean	42.5	[illegible]					[illegible]	[illegible]				
Max.	[illegible]	3.435					[illegible]	[illegible]				
Min.	7.3	[illegible]					[illegible]	[illegible]				

May, 1936

Date	Nishnabotna River (200 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day	West Tarkio Creek (105 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day
1	582.	2.91	1260.	6.30	7:00A	42,100.	327.	3.73	1250.	11.9	3:00A	45,600.
2	9[illegible]	.47				1,700.	46.	.438				320.
3	4[illegible]	.22				125.	31.	.295				240.
4	35.	.175				52.	21.	.200				38.
5	28.	.14				36.	17.	.162				21.
6	3[illegible]	.15				88.	15.	.142				17.
7	24.	.12				22.	13.	.124				9.1
8	43.	.215				997.	130.	1.24	765.	7.29	10:00P	12,500.
9	645.	3.225	1200.	6.00	11:00P	53,700.	330.	3.14	775.	7.38	5:30A	22,200.
10	3[illegible]	[illegible]				16,600.	105.	1.00				1,470.
11	85.	.43				618.	59.	.561				376.
12	170.	.85	625.	3.125	11:00A	6,180.	342.	3.26	2260.	21.5	11:30A	21,000.
13	72.	.36				192.	51.	.485				184.
14	53.	.265				69.	34.	.324				66.
15	47.	.235				57.	33.	.314				52.
16	42.	.21				41.	26.	.248				20.
17	39.	.195				31.	24.	.228				13.
18	38.	.19				26.	23.	.218				13.
19	3[illegible]	.17				17.	19.	.181				5.2
20	32.	.16				14.	18.	.171				3.2
21	28.	.14				5.7	16.	.152				2.1
22	24.	.12				4.3	14.	.133				1.2
23	27.	.13				2.6	20.	.190	99.	.942	2:15P	15.
24	31.	.15				3.7	18.	.171				6.7
25	30.	.1[illegible]				4.6	17.	.162				7.3
26	26.	.1[illegible]				4.6	16.	.152				3.4
27	24.	.12				3.0	14.	.133				2.3
28	1[illegible]	.09[illegible]				2.4	13.	.124				1.3
29	17.	.08[illegible]				1.6	12.	.124				1.3
30	15.	.075				1.0	10.	.0952				.7
31	15.	.07[illegible]				1.6	9.7	.0924				.9
Total	[illegible]					127,[illegible]	[illegible]					104,[illegible]
Mean	[illegible]						[illegible]	.501				
[illegible]	[illegible]						3.[illegible]	3.[illegible]				
[illegible]							9.7	.09[illegible]				

June, 1936

1	1[illegible]	.07				3.6	8.9	.0947				1.5
2	1[illegible]	[illegible]				1.1	7.4	.0705				1.9
3	9.[illegible]	.09				.7	7.1	.0675				.4
4	1[illegible]	.0[illegible]				.6	7.1	.0675				.7
5	1[illegible]	[illegible]	2[illegible]0.	10.00	11:15P	20,[illegible]	280.	2.48	2830.	27.0	10:30P	26,[illegible]0.
6	5[illegible]	[illegible]	1[illegible]0.	7.30	4:30A	4[illegible]	1.7[illegible]	1.50				8,[illegible]0.
7	4[illegible]	[illegible]				237.	163.	1.55	306.	2.91	5:30A	3,340.
8	2[illegible]	[illegible]				44.	23.	.219				65.
9	80.	[illegible]	260.	1.30	11:00A	4,[illegible]0.	96.	.914	505.	4.80	11:30A	6,080.
10	[illegible]	[illegible]				1,810.	28.	.266	48.	.457	9:[illegible]P	131.
11	[illegible]	[illegible]				125.	25.	.238				82.
12	20	.10				39.	13.	.124				29.
13	1[illegible].	.0[illegible]5				16.	10.	.0952				10.
14	1[illegible]	.075				6.8	9.3	.0885				5.8
15	1[illegible]	.07				4.5	8.0	.0848				3.5
16	1[illegible]	.0[illegible]				1.5	7.8	.0741				1.4
17	9.8	.049				1.1	7.8	.0741				2.9
18	8.8	.04[illegible]				.7	6.5	.0619				.5
19	8.[illegible]	.0[illegible]				.7	6.8	.0647				.5
20	7.[illegible]	.0[illegible]				1.1	6.2	.0590				.6
21	[illegible]	[illegible]				.7	5.2	.0495				.3
22	5.5	[illegible]				.5	5.2	.0495				.2
23	[illegible]	[illegible]				.4	5.2	.0495				.3
24	5.[illegible]	[illegible]				.7	5.2	.0495				.3
25	5.[illegible]	[illegible]				.5	4.6	.0438				.3
26	[illegible]	[illegible]				.4	3.9	.0371				.3
27	4.[illegible]	[illegible]				.4	3.7	.0352				.4
28	3.[illegible]	[illegible]				.4	3.4	.0324				.3
29	[illegible]	[illegible]				.6	3.3	[illegible]				.3
30	1[illegible]	[illegible]	28.	.14	11:00A	1.5	4.2	[illegible]	6.5	.0619	[illegible]	.3
Total	[illegible]					75,167.5						45,[illegible]9.7
[illegible]	[illegible]						[illegible]					
[illegible]	[illegible]						[illegible]					
[illegible]	[illegible]						[illegible]					

July, 1936

Date	Tarkio River (200 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day	West Tarkio Creek (105 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day
1	6.5	.0325				5.3	3.5	.0333				.2
2	3.3	.0165				2.1	3.3	.0314				.2
3	2.7	.0135				.8	2.7	.0257				.2
4	2.0	.010				.3	2.1	.0200				.1
5	1.7	.0085				.2	1.7	.0162				.1
6	1.4	.007				.2	1.6	.0152				.07
7	1.1	.0055				.2	1.2	.0104				.06
8	1.1	.0055				.2	1.0	.00952				.04
9	.98	.0049				.2	.93	.00885				.04
10	.98	.0049				.1	.93	.00885				.04
11	.88	.0044				.2	.84	.00800				.04
12	.78	.0039				.2	.84	.00800				.05
13	.69	.00345				.1	.84	.00800				.08
14	.69	.00345				.2	.76	.00724				.04
15	.69	.00345				.1	.69	.00656				.05
16	.69	.00345				.1	.58	.00551				.05
17	.61	.00305				.07	.63	.00600				.05
18	.69	.00345				.1	.63	.00600				.06
19	.78	.0039	4.4	.022	8:00P	.2	.69	.00656				.07
20	.98	.0049				.2	.76	.00724				.06
21	.98	.0049				.2	.69	.00656				.05
22	.78	.0039				.1	.69	.00656				.04
23	.69	.00345				.1	.53	.00551				.03
24	.53	.00265				.06	.49	.00465				.03
25	.47	.00235				.05	.41	.00390				.03
26	.41	.00205				.05	.38	.00362				.03
27	.53	.00265				.07	.38	.00362				.03
28	.53	.00265				.06	.38	.00362				.02
29	.41	.00205				.04	.38	.00362				.02
30	.36	.0018				.04	.41	.00390				.02
31	.36	.0018				.04	.45	.00428				.01
Total						11.83						1.81
Mean	1.14	.0057					1.01	.00961				
Max.	6.5	.0325					3.5	.0333				
Min.	.36	.0018					.33	.00362				

August, 1936

1	.36	.0018				.03	.45	.00428				.04
2	.36	.0018				.08	.45	.00428				.04
3	.41	.00205				.2	.45	.00428				.07
4	.53	.00265				.09	.53	.00504				.09
5	.78	.0039				.1	.84	.00800				.1
6	.53	.00265				.09	.69	.00656				.07
7	.47	.00235				.06	.63	.00600				.07
8	.53	.00265				.06	.58	.00552				.06
9	.47	.00235				.06	.53	.00505				.07
10	.53	.00265				.08	.45	.00428				.06
11	.47	.00235				.07	.45	.00428				.06
12	.47	.00235				.07	.41	.00390				.06
13	.41	.00205				.06	.38	.00362				.07
14	.41	.00205				.06	.38	.00362				.07
15	.53	.00265				.07	.41	.00390				.07
16	.41	.00205				.04	.41	.00390				.07
17	.41	.00205				.04	.41	.00390				.1
18	.41	.00205				.04	.38	.00362				.1
19	.53	.00265				.09	.45	.00428				.07
20	8.1	.0405	42.	.21	5:00A	100.	13.	.124	20.	.190	8:00A	25.
21	.98	.0049				1.2	.69	.00656				1.0
22	.61	.00305				.3	1.0	.00952				1.0
23	.88	.0044				.3	1.2	.0113				.4
24	.83	.00415				.2	.53	.00504				.2
25	.79	.00395				.2	.41	.00390				.1
26	.74	.0037				.2	.38	.00362				.1
27	.63	.00315				.2	.35	.00333				.1
28	.52	.0026				.1	.41	.00390				.1
29	.38	.0019				.04	.35	.00333				.08
30	.38	.0019				.05	.38	.00362				.03
31	.50	.0025				.05	.53	[illegible]				.09
Total						104.33						29.69
Mean	.726	.00363					.915	.00870				
Max.	8.1	.0405					13.	[illegible]				
Min.	.35	[illegible]					.35	[illegible]				

September, 1936

Date	Tarkio River (200 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day	West Tarkio Creek (105 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day
1	.73	.00365				.07	.45	.00428				.1
2	2.3	.0115				8.3	1.7	.0162				.3
3	.67	.00335				.3	.63	.00600				.4
4	29.	.145	179.	.895	11:00P	813.	83.	.790	380.	3.62	9:30P	3,050.
5	94.	.47	166.	.83	12:00M	3,400.	57.	.542				1,200.
6	27.	.135				244.	12.	.153				46.
7	13.	.09				165.	7.9	.0750				13.
8	13.	.065				124.	2.7	.0257				3.6
9	4.1	.0205				13.	1.0	.00952				1.1
10	1.7	.0085				4.4	1.6	.00152				1.2
11	1.2	.0055				1.3	.34	.00300				.3
12	561.	2.805	1700.	8.50	3:00A	37,400.	116.	1.10	466.	4.43	10:30P	2,900.
13	130.	.655				2,740.	106.	1.01				1,400.
14	28.	.14				132.	16.	.152				57.
15	7.3	.039				14.	7.9	.0751				17.
16	49.	.245	228	1.14	12:00M	1,580.	4.5	.0428				4.5
17	21.	.105				130.	1.9	.0181				1.3
18	5.7	.0285				9.7	3.3	.0314				2.1
19	3.9	.0195				4.6	3.2	.0362				1.9
20	2.9	.0145				2.9	1.9	.0181				2.2
21	2.2	.011				1.6	1.3	.0124				1.1
22	1.8	.009				.6	1.2	.0114				.7
23	1.3	.0065				.3	1.2	.0114				.5
24	1.0	.005				.2	.34	.00300				.2
25	.80	.004				.1	.63	.00600				.09
26	149.	.745	504	2.52	7:00P	8,100.	12.	.114	58.	.552	7:00P	149.
27	95.	.475				1,580.	41.	.390	62.	.590	8:00A	370.
28	22.	.11				70.	22.	.210				70.
29	9.9	.0495				11.	7.9	.0751				15.
30	7.6	.038				4.3	5.4	.0514				4.3
Total						55,724.27						9,407.29
Mean 43.1		.2155					17.5	.167				
Max. 561.		2.805					466.	1.10				
Min. .67		.00335					.45	.00428				

October, 1936

1	5.9	.0295				1.4	3.5	.0333				1.7
2	4.6	.023				.6	3.1	.0295				.8
3	3.7	.0185				.5	2.5	.0238				1.7
4	87.	.435				7,500.	41.	.390				1,850.
5	852.	4.26	2040.	10.20	12:30A	59,900.	339.	3.16	493	4.70	5:15P	11,400.
6	55.	.275				680.	62.	.590				670.
7	21.	.105				55.	16.	.152				50.
8	13.	.065				11.	9.2	.0875				11.
9	11.	.055				5.0	7.9	.0752				4.7
10	9.2	.046				2.9	5.8	.0552				2.2
11	6.8	.034				1.9	5.1	.0485				1.1
12	5.9	.0295				1.7	4.5	.0428				.8
13	5.3	.0265				.4	3.8	.0362				.4
14	4.8	.024				.4	3.5	.0333				.4
15	4.7	.0235				.4	3.5	.0333				.2
16	4.6	.024				.4	3.1	.0295				.2
17	4.4	.022				.1	2.7	.0257				.2
18	3.9	.0195				.1	2.7	.0257				.1
19	3.7	.0185				.1	2.5	.0238				.09
20	3.7	.0185				.5	2.3	.0219				.09
21	3.2	.016				.4	1.9	.0181				.04
22	2.8	.014				.1	1.9	.0152				.04
23	2.7	.0135				.1	1.7	.0162				.04
24	2.5	.0125				.1	1.9	.0181				.06
25	2.8	.014				.1	1.9	.0181				.05
26	3.2	.016				.1	2.5	.0238				.09
27	2.9	.014				.1	1.9	.0181				.05
28	3.0	.015				.05	2.1	.0200				.04
29	2.9	.0145				.05	2.1	.0200				.04
30	3.1	.0155				.04	1.9	.0181				.04
31	3.0	.015				.05	2.1	.0200				.04
Total						73,125.21						13,996.21
Mean 38.9		.1945					1.4	.13				
Max. 852.		4.26					339.	3.16				
Min. 2.5		.0125					1.9	.018				

November, 1936

Date	Turkio River (200 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day	West Turkio Creek (105 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day
1	3.2	.016				.09	2.5	.0238				.1
2	7.1	.0355				123.	3.5	.0333	13.	.124	6:30A	8.0
3	30.	.15	52.	.26	2:30A	901.	2.5	.0238				.4
4	7.5	.0375				33.	1.9	.0181				.2
5	4.1	.0205				9.3	2.7	.0257				.4
6	4.3	.0215				7.7	2.7	.0257				.2
7	3.7	.0185				4.4	2.7	.0257				.1
8	2.3	.0115				1.6	1.4	.0133				.08
9	2.4	.012				.6	2.7	.0257				.1
10	2.9	.0145				.8	2.7	.0257				.2
11	3.6	.018				.9	2.7	.0257				.2
12	3.7	.0185				.7	2.5	.0238				.1
13	3.3	.0165				.3	2.3	.0219				.1
14	3.3	.0165				.2	2.7	.0257				.2
15	3.0	.015				.2	2.1	.0200				.1
16	2.5	.0125				.1	1.6	.0152				.07
17	2.5	.0125				.2	2.1	.0200				.1
18	2.4	.012				.1	2.1	.0200				.06
19	2.7	.0135				.1	1.9	.0181				.09
20	2.7	.0135				.1	1.9	.0181				.05
21	2.6	.013				.2	1.8	.0171				.04
22	2.3	.0115				.09	1.3	.0124				.04
23	2.4	.012				.5	1.7	.0162				.2
24	2.2	.011				.09	1.2	.0114				.03
25	1.7	.0085				.3	1.4	.0133				.05
26	1.7	.0085				.08	1.2	.0114				.05
27	2.0	.010				.03	1.4	.0133				.04
28	2.5	.0125				.08	2.5	.0238				.1
29	2.5	.0125				.08	1.7	.0162				.06
30	2.1	.0105				.08	1.2	.0114				.03
Total						1,085.97						11.49
Mean	3.97	.01985					2.08	.0198				
Max.	30.	.15					3.5	.0333				
Min.	1.7	.0085					1.2	.0114				

December, 1936

1	1.9	.0095				.1	1.0	.00952				.04
2	1.8	.009				.09	1.2	.0114				.05
3	2.3	.0115				.07	1.6	.0152				.05
4	1.9	.0095				.08	1.3	.0124				.03
5	1.6	.008				.06	1.3	.0124				.03
6	1.4	.007				.06	1.3	.0124				.05
7	.87	.00435				.03	.89	.00657				.03
8	.87	.00435				.02	.76	.00724				.02
9	1.1	.0055				.02	1.4	.0133				.03
10	1.2	.006				.03	1.6	.0152				.05
11	1.1	.0055				.02	1.4	.0133				.05
12	1.5	.0075				.04	1.4	.0133				.07
13	1.9	.0095				.06	1.2	.0114				.04
14	2.0	.01				.04	1.6	.0152				.03
15	2.4	.012				.05	1.9	.0181				.05
16	3.3	.0165				.1	2.9	.0276				.1
17	3.9	.0195				.2	3.3	.0314				.2
18	4.3	.0215				.3	3.1	.0295				.1
19	4.6	.023				.2	3.1	.0295				.1
20	4.1	.0205				.2	2.9	.0276				.08
21	3.5	.0175				.1	2.5	.0238				.06
22	3.0	.015				.1	1.9	.0181				.06
23	2.9	.0145				.09	2.1	.0200				.05
24	4.0	.020				.1	3.8	.0362				.1
25	17.	.085				55.	9.2	.0875				7.1
26	36.	.18	64.	.32	7:30P	658.	14.	.133				13.
27	18.	.09				466.	14.	.133				89.
28	7.8	.039				28.	6.4	.0609				15.
29	5.3	.0265				5.5	5.4	.0514				13.
30	246.	1.24	515.	2.575	2:00P	34,800.	30.	.286	65.	.619	7:30A	996.
31	51.	.255				2,720.	45.	.428	58.	.552	6:00A	1,060.
Total						38,734.60						3,194.80
Mean	14.2	.071					3.46	.0329				
Max.	246.	1.24					45.	.428				
Min.	.87	.00435					.89	.00657				

January, 1937

Date	Tarkio River (200 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day	West Tarkio Creek (105 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day
1	7.1	.0355				80.	12.	.114				133.
2	8.4	.042				71.	4.8	.0457				52.
3	5.5	.0275				30.	2.7	.0257				12.
4	3.7	.0185				4.8	2.5	.0238				6.8
5	3.2	.016				1.2	2.7	.0257				5.0
6	2.2	.011				.8	2.3	.0219				2.3
7	.94	.0047				.06	.93	.00885				.2
8	1.0	.005				.08	.41	.0039				.02
9	1.1	.0055				.03	.35	.00334				.02
10	.94	.0047				.05	.35	.00334				.01
11	.73	.00365				.04	.33	.00314				.01
12	.87	.00435				.05	.33	.00314				.02
13	.73	.00365				.04	.33	.00314				.02
14	.73	.00365				.03	.35	.00334				.01
15	.52	.0026				.02	.38	.00362				.01
16	.43	.00215				.03	.37	.00352				.01
17	.32	.0016				.02	.31	.00295				.01
18	.23	.00115				.01	.25	.00238				.01
19	.20	.001				.01	.23	.00219				.01
20	.16	.0008				0	.20	.00190				.01
21	.13	.00065				0	.15	.00171				.01
22	.10	.0005				.01	.16	.00152				.01
23	.08	.0004				.01	.15	.00143				.01
24	.06	.0003				0	.14	.00133				.01
25	.05	.00025				.02	.13	.00124				.01
26	.04	.0002				0	.12	.00114				.01
27	.03	.00015				0	.11	.00105				.01
28	.03	.00015				0	.10	.000952				.01
29	.05	.00025				.01	.10	.000952				0
30	.11	.00055				.01	.09	.000848				0
31	.08	.0004				.03	.08	.000761				0
Total						188.36						211.55
Mean	1.28	.64					1.08	.0103				
Max.	8.4	.042					12.	.114				
Min.	.03	.00015					.08	.000761				

February, 1937

1	.03	.00015				0	.07	.000666				0
2	.03	.00015				0	.07	.000666				0
3	.03	.00015				0	.06	.000571				.01
4	.03	.00015				0	.06	.000571				.01
5	.03	.00015				0	.06	.000571				.01
6	.05	.00025				0	.06	.000571				.01
7	.03	.00015				0	.05	.000476				0
8	.06	.0003				0	.05	.000476				0
9	.05	.00025				0	.05	.000476				0
10	.03	.00015				0	.05	.000476				0
11	11.	.055				16.	17.	.162				24.
12	306.	1.53	940.	4.70	10:00P	2,600.	278.	2.62	905.	8.61	5:30P	2,130.
13	955.	4.775	2000.	10.00	6:30P	9,400.	534.	5.09	1340.	12.8	4:15P	5,540.
14	551.	2.755	660.	3.30	10:30P	1,690.	388.	3.70	700.	6.66	6:30P	804.
15	256.	1.28				442.	153.	1.46				106.
16	326.	1.63	715.	3.575	6:00P	3,640.	270.	2.57	935.	8.90	6:30P	3,420.
17	803.	4.015	1730.	8.65	6:30P	9,540.	423.	4.02	1040.	9.90	4:30P	5,300.
18	1420.	7.10	3940.	19.70	8:00P	36,900.	552.	5.25	1170.	11.1	5:30P	10,800.
19	1230.	6.15	1100.	5.50	10:30P	14,700.	690.	6.56	910.	8.65	2:00P	7,700.
20	426.	2.13				3,610.	214.	2.04				1,280.
21	22.	.11				17.	15.	.143				11.
22	7.4	.037				9.8	6.5	.0619				9.9
23	3.8	.019				7.1	7.8	.0742				3.4
24	4.0	.02				1.0	6.2	.0590				4.1
25	6.5	.0325				1.7	4.4	.0419				2.5
26	3.1	.0155				.4	3.1	.0295				.7
27	2.4	.012				.3	2.9	.0276				.3
28	3.2	.016				.5	3.7	.0352				.4
Total						82,875.8						37,136.34
Mean	226.	1.13					127.	1.21				
Max.	1420.	7.10					690.	6.56				
Min.	.03	.00015					.05	.000476				

March, 1937

Day	Tarkio River (200 sq.mi.) Mean Daily Discharge C.F.S.	Mean Daily Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	Maximum Rate of Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge Time	Suspended Matter Tons Per Day	West Tarkio Creek (105 sq.mi.) Mean Daily Discharge C.F.S.	Mean Daily Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	Maximum Rate of Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge Time	Suspended Matter Tons Per Day
1	8.1	.0405				2.0	6.1	.0580				1.2
2	1,150.	5.75	3520.	17.60	8:00P	35,300.	433.	4.12	1290.	12.3	5:30P	12,100.
3	1,150.	7.55				51,600.	711.	6.76	1210.	11.5	3:30P	24,600.
4	2,050.	10.25	3280.	16.40	3:00A	90,800.	821.	7.81	1210	11.5	1:00A	37,900.
5	448.	2.24	1030.	5.15	9:30P	42,400.	316.	3.00	445.	4.23	4:00P	17,400.
6	304.	1.52				30,700.	131.	1.25	212.	2.02	4:00P	5,650.
7	128.	.64				8,040.	41.	.390				848.
8	62.	.31				1,870.	20.	.190				188.
9	13.	.065				87.	10.	.0952				46.
10	10.	.05				30.	7.7	.0733				18.
11	13.	.065				35.	6.2	.0590				9.2
12	10.	.05				16.	5.9	.0561				6.5
13	9.6	.048				11.	6.2	.0590				4.4
14	3.8	.019				1.4	2.2	.0210				.3
15	3.4	.017				1.1	3.3	.0314				.4
16	4.6	.023				.8	4.5	.0429				.6
17	11.	.055				10.	5.4	.0514				4.5
18	12.	.06				12.	5.4	.0514				3.6
19	14.	.07				58.	7.1	.0676				6.2
20	35.	.175	49.	.245	4:30P	277.	11.	.105	14.	.133	1:30A	42.
21	24.	.12				159.	8.0	.0761				9.5
22	15.	.075				32.	7.1	.0676				8.5
23	23.	.115				371.	10.	.0952				54.
24	84.	.42	96.	.48	8:00A	2,900.	23.	.219	33.	.314	1:30A	304.
25	67.	.335	133.	.665	3:00A	3,580.	17.	.162	20.	.190	8:00P	81.
26	27.	.135				296.	15.	.143				62.
27	18.	.09				53.	8.7	.0828				17.
28	20.	.10				60.	9.5	.0905				42.
29	15.	.075				26.	8.3	.0790				14.
30	13.	.065				17.	6.8	.0648				6.5
31	12.	.06				15.	7.7	.0733				9.4
Total						268,760.3						99,436.8
Mean	197.	.985					86.2	.820				
Max	2050.	10.25					821.	7.81				
Min	3.4	.017					2.2	.0210				

April, 1937

1	13.	.065				35.	7.7	.0732				10.
2	14.	.07				31.	8.0	.0761				6.5
3	13.	.065				19.	8.0	.0761				6.6
4	12.	.06				25.	6.8	.0648				6.2
5	9.1	.0455				5.4	5.6	.0533				3.2
6	5.9	.0295				2.8	4.9	.0466				2.0
7	54.	.27				2,540.	31.	.295	98.	.933	10:30P	714.
8	123.	.615	192.	.96	1:00A	6,320.	38.	.362				676.
9	55.	.275				629.	28.	.266				188.
10	36.	.18				140.	19.	.181				62.
11	27.	.135				79.	16.	.152				27.
12	21.	.105				44.	14.	.133				17.
13	18.	.09				40.	12.	.114				10.
14	14.	.07				22.	9.5	.0904				7.8
15	11.	.055				10.	6.2	.0590				4.9
16	8.8	.044				7.4	5.9	.0561				3.0
17	8.8	.044				5.4	5.9	.0561				5.6
18	7.8	.039				2.9	5.1	.0485				.7
19	7.2	.036				1.6	5.1	.0485				.6
20	156.	.78	700.	3.50	6:30P	40,100.	70.	.666	365.	3.49	4:30P	16,600.
21	129.	.645				20,400.	40.	.380				3,430.
22	23.	.115				542.	8.7	.0828				141.
23	37.	.185	224.	1.12	9:15P	4,600.	103.	.980	652.	6.20	8:30P	21,900.
24	52.	.26				6,060.	37.	.352				2,560.
25	28.	.14				288.	16.	.152				271.
26	18.	.09				76.	12.	.114				55.
27	14.	.07				33.	9.1	.0865				14.
28	12.	.06				17.	8.7	.0837				9.0
29	12.	.06				16.	7.7	.0732				5.9
30	101.	.505	291.	1.455	1:30A	17,500.	7.1	.0675				5.4
Total						98,951.5						46,742.4
Mean	34.7	.1735					18.5	.176				
Max	156.	.78					103.	.980				
Min	5.9	.0295					4.9	.0465				

May, 1937

Date	Tarkio River (200 sq.mi.) Mean Daily Discharge C.F.S.	Mean Daily Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	Maximum Rate of Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge Time	Suspended Matter Tons Per Day	West Tarkio Creek (105 sq.mi.) Mean Daily Discharge C.F.S.	Mean Daily Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	Maximum Rate of Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge Time	Suspended Matter Tons Per Day
1	16.	.08				485.	5.9	.0561				4.0
2	30.	.15	268.	1.34	11:30P	3,060.	10.	.0952				96.
3	121.	.605				12,900.	25.	.238	68.	.647	12:30A	536.
4	47.	.235				1,080.	18.	.171				178.
5	28.	.14				185.	13.	.124				81.
6	159.	.795	1420.	7.10	7:00P	26,900.	42.	.400				1,050.
7	38.	.19				1,260.	60.	.570	362.	3.44	12:15A	3,680.
8	15.	.075				25.	9.9	.0942				49.
9	16.	.08				27.	7.1	.0676				27.
10	12.	.06				13.	7.1	.0676				3.3
11	9.9	.0495				8.6	6.2	.0590				7.7
12	10.	.05				5.5	5.4	.0514				.7
13	8.3	.0415				3.1	4.1	.0390				.3
14	7.4	.037				.3	3.8	.0362				.06
15	7.6	.038				2.0	4.1	.0390				1.0
16	8.1	.0405				1.1	3.8	.0362				.5
17	8.1	.0405				1.1	3.8	.0362				.7
18	6.1	.0305				.2	2.9	.0276				1.3
19	4.6	.023				.5	3.1	.0295				1.0
20	508.	2.54				105,000.	118.	1.12	900.	8.56	10:30P	21,400.
21	2,050.	10.25	5600.	28.00	4:30A	298,000.	596.	5.67	1110.	10.6	10:00P	49,000.
22	55.	.275				1,470.	160.	1.52				5,180.
23	24.	.12				135.	14.	.133				130.
24	12.	.06				25.	9.1	.0866				22.
25	9.4	.047				12.	9.1	.0866				10.
26	876.	4.38	2680.	13.40	7:45A	117,000.	204.	1.94	1030.	10.1	2:15P	13,800.
27	87.	.435	138.	.64	8:30A	5,670.	369.	3.51	1310.	12.5	3:30A	11,200.
28	28.	.14				291.	18.	.172				232.
29	21.	.105				46.	12.	.114				56.
30	23.	.115	53.	.265	10:00P	123.	9.5	.0905				13.
31	20.	.10				147.	64.	.609	108.	1.03	7:30A	2,670.
Total						575,846.4						109,410.56
Mean	138.	.69					58.6	.557				
Max.	2050.	10.25					596.	5.67				
Min.	4.6	.023					2.9	.0276				

June, 1937

Date	Tarkio River Mean Daily Discharge C.F.S.	Mean Daily Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	Maximum Rate of Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge Time	Suspended Matter Tons Per Day	West Tarkio Creek Mean Daily Discharge C.F.S.	Mean Daily Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	Maximum Rate of Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge Time	Suspended Matter Tons Per Day
1	12.	.06				14.	12.	.114				158.
2	19.	.095				40.	8.7	.0828				62.
3	14.	.07				26.	14.	.133				66.
4	10.	.05				4.1	8.3	.0790				30.
5	42.	.21	105.	.525	11:00A	2,090.	12.	.114	40.	.381	2:30A	196.
6	21.	.105				320.	49.	.466	43.	.410	6:00A	2,260.
7	6.9	.0345				22.	9.5	.0905				86.
8	5.6	.028				5.2	4.5	.0428				19.
9	8.3	.0415				6.0	6.8	.0648				17.
10	7.6	.038				3.3	4.9	.0466				5.1
11	5.6	.028				1.9	4.7	.0447				2.5
12	5.0	.025				2.6	4.3	.0410				1.4
13	285.	1.425	625.	3.125	5:00A	34,800.	170.	1.62	595.	5.66	3:00A	12,700.
14	34.	.17				646.	62.	.590				1,650.
15	135.	.625	1750.	8.75	10:30P	17,100.	34.	.324	270.	2.57	8:00P	832.
16	1390.	6.95	3540.	17.70	5:00A	120,000.	589.	5.61	1300.	12.4	5:30A	22,200.
17	88.	.44				2,090.	39.	.372				850.
18	24.	.12				126.	11.	.105				49.
19	14.	.07				14.	7.1	.0675				17.
20	10.	.05				5.1	5.9	.0561				5.3
21	8.6	.043				1.4	4.9	.0466				20.
22	6.9	.0345				.3	4.3	.0410				.4
23	5.4	.027				.9	3.3	.0314				.2
24	4.6	.023				.2	2.9	.0276				.1
25	4.3	.0215				.7	2.7	.0257				.2
26	4.1	.0205				.4	4.5	.0428				23.
27	4.0	.020				.4	2.7	.0257				.5
28	3.9	.0195				.4	2.2	.0210				.3
29	3.6	.018				.5	1.9	.0181				.3
30	3.1	.0155				.2	1.9	.0181				.2
Total						177,321.6						41,251.3
Mean	72.8	.364					36.3	.346				
Max.	1390.	6.95					589.	5.61				
Min.	3.1	.0155					1.9	.0181				

July, 1937

Date	Tarkio River (200 sq.mi.) Mean Daily Discharge C.F.S.	Mean Daily Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	Maximum Rate of Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge Time	Suspended Matter Tons Per Day	West Tarkio Creek (105 sq.mi.) Mean Daily Discharge C.F.S.	Mean Daily Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	Maximum Rate of Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge Time	Suspended Matter Tons Per Day
1	2.9	.0145				.2	1.7	.0162				.2
2	2.0	.010				.2	1.6	.0152				.2
3	1.2	.006				.4	1.3	.0124				.2
4	1.2	.006				.3	1.0	.00952				.2
5	1.1	.0055				.2	.86	.00819				.1
6	1.1	.0055				.1	.63	.00600				.08
7	1.1	.0055				.1	.54	.00514				.05
8	1.1	.0055				.1	.47	.00447				.05
9	1.1	.0055				.1	.41	.00390				.04
10	.91	.00455				.06	.29	.00276				.03
11	.86	.0043				.05	.41	.00390				.02
12	24.	.12	98.	.49	8:30A	716.	45.	.428	480.	4.57	5:30A	1,760.
13	73.	.365	360.	1.80	8:30A	6,670.	17.	.162				209.
14	295.	1.475	1080.	5.40	6:30A	34,300.	85.	.809	179.	1.71	8:00A	3,420.
15	40.	.20				786.	77.	.733	137	1.31	5:00A	2,140.
16	8.6	.043				33.	24.	.228	340.	3.24	1:30A	690.
17	3.6	.018				6.1	4.5	.0428				10.
18	305.	1.525	630.	3.15	12:45P	41,000.	11.	.105				38.
19	725.	3.625	2890.	14.45	12:45A	45,900.	450.	4.29	715.	6.81	9:00P	16,200.
20	64.	.32				989.	227.	2.16				2,120.
21	15.	.075				120.	31.	.295				325.
22	7.9	.0395				17.	6.2	.0590				23.
23	5.5	.0275				5.0	4.1	.0390				8.5
24	5.0	.025				1.5	22.	.210	300.	2.86	6:30A	1,060.
25	6.1	.0305				.7	4.3	.0410				2.3
26	4.5	.0225				.2	3.6	.0343				.7
27	3.2	.016				.1	3.3	.0314				.5
28	3.6	.018				.09	1.9	.0181				.3
29	8.6	.043				436.	758.	7.21	8710.	82.9	10:15P	163,000.
30	37.	.185	240.	1.20	12:30A	2,090.	197.	1.88				15,000.
31	4.1	.0205				8.6	4.9	.0466				9.3
Total						133,080.10						205,018.77
Mean	53.3	.2665					64.1	.610				
Max.	725.	3.625					758.	7.21				
Min.	.86	.0043					.29	.00276				

August, 1937

Date	Tarkio River Mean Daily Discharge C.F.S.	Mean Daily Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	Maximum Rate of Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge Time	Suspended Matter Tons Per Day	West Tarkio Creek Mean Daily Discharge C.F.S.	Mean Daily Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	Maximum Rate of Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge Time	Suspended Matter Tons Per Day
1	2.4	.012				.8	2.9	.0276				2.1
2	3.2	.016				1.5	2.7	.0257				1.2
3	2.1	.0105				.2	1.9	.0181				.2
4	1.4	.007				.5	1.6	.0152				.2
5	1.4	.007				.2	1.4	.0133				.9
6	1.1	.0055				.03	1.0	.00952				.03
7	.50	.0025				.03	1.0	.00952				.06
8	.50	.0025				.03	1.1	.0105				.08
9	3.6	.018				1.4	.74	.00705				.05
10	1.4	.007				.4	.47	.00447				.02
11	.80	.004				.1	.54	.00514				.03
12	.20	.001				.01	.54	.00514				.04
13	.20	.001				.01	.63	.00600				.04
14	.51	.00255				.09	.54	.00514				.04
15	.45	.00225				.01	.29	.00276				.03
16	.39	.00195				.06	.29	.00276				.02
17	.39	.00195				.01	.29	.00276				.03
18	.33	.00165				.01	.29	.00276				.02
19	.85	.00425				.03	19.	.181	127.	1.21	5:00A	780.
20	4.5	.0225	16.	.08	2:30P	.3	27.	.257	118.	1.12	5:00A	765.
21	4.2	.0225				.2	2.9	.0276				6.7
22	1.7	.0085				.5	1.0	.00952				1.1
23	.94	.0047				.09	.86	.00819				.3
24	.85	.00425				.06	.63	.00600				.1
25	.63	.00315				.04	.47	.00446				.04
26	.61	.00305				.03	.54	.00514				.03
27	.45	.00225				.02	.41	.00390				.05
28	.33	.00165				.02	.35	.00334				.3
29	.24	.0012				.01	.29	.00276				.03
30	.24	.0012				.01	.35	.00334				.04
31	.20	.0010				.01	.25	.00238				.03
Total						6.76						1,558.11
Mean	.18	.0059					2.33	.0222				
Max.	4.5	.0225					27.	[illegible]				
Min.	.20	.0010					.25	[illegible]				

September, 1937

Date	Tarkio River (200 sq.mi.) Mean Daily Discharge C.F.S.	Mean Daily Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	Maximum Rate of Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge Time	Suspended Matter Tons Per Day	West Tarkio Creek (105 sq.mi.) Mean Daily Discharge C.F.S.	Mean Daily Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	Maximum Rate of Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge Time	Suspended Matter Tons Per Day
1	.16	.0008				0	.14	.00133				.02
2	.12	.0006				0	.17	.00162				.02
3	.12	.0006				0	.21	.00200				.03
4	.20	.001				.01	.29	.00276				.05
5	.33	.00165				.02	.17	.00162				.02
6	.33	.00165				.01	.25	.00238				.02
7	.28	.0014				.01	.25	.00238				.04
8	.28	.0014				.01	.21	.00200				.02
9	.24	.0012				.01	.14	.00133				.02
10	.28	.0014				.01	.17	.00162				.03
11	.20	.001				.01	.17	.00162				.02
12	.16	.0008				0	.17	.00162				.02
13	.12	.0006				0	.14	.00133				.01
14	.20	.001				0	.17	.00162				.02
15	.20	.001				.02	.14	.00133				.01
16	.16	.0008				0	.14	.00133				.02
17	.20	.001				0	.17	.00162				.01
18	.24	.0012				0	.21	.00200				.01
19	.24	.0012				0	.21	.00200				.03
20	.20	.001				0	.25	.00238				.05
21	.24	.0012				.01	.25	.00238				.02
22	.24	.0012				.01	.21	.00200				.03
23	.28	.0014				.01	.35	.00333				.06
24	.85	.00425				.03	.54	.00514				.08
25	.63	.00315				.02	.35	.00333				.02
26	1.4	.007				.02	.21	.00200				.02
27	.77	.00385				.02	.17	.00162				.02
28	.94	.0047				.02	.41	.00390				.03
29	.63	.00315				.03	.29	.00276				.05
30	.33	.00165				0	.17	.00162				.02
Total						0.28						.85
Mean	.352	.00176					.224	.00213				
Max.	1.4	.007					.54	.00514				
Min.	.12	.0006					.14	.00133				

October, 1937

1	.33	.00165				.01	.17	.00162				.02
2	.33	.00165				0	.21	.00200				.04
3	.28	.0014				.01	.17	.00162				.02
4	.24	.0012				.01	.14	.00133				.02
5	.24	.0012				.01	.14	.00133				.02
6	.24	.0012				.01	.14	.00133				.01
7	.16	.0008				0	.14	.00133				.01
8	.20	.001				0	.25	.00238				.02
9	.45	.00225				.01	.54	.00514				.03
10	.28	.0014				.0	.35	.00333				.02
11	.33	.00165				0	.21	.00200				.02
12	.39	.00195				.01	.29	.00276				.03
13	.39	.00195				.01	.29	.00276				.01
14	.28	.0014				.01	.25	.00238				.01
15	.39	.00195				0	.29	.00276				.02
16	.77	.00385				.04	.74	.00705				.03
17	1.4	.007				.04	2.0	.0191				.4
18	1.7	.0085				.1	.86	.00819				.07
19	1.5	.0075				.06	.63	.00600				.04
20	1.0	.005				.05	.47	.00448				.03
21	.85	.00425				.02	.35	.00333				.02
22	.57	.00285				.01	.25	.00238				.01
23	.51	.00255				.01	.25	.00238				.01
24	.51	.00255				.01	.35	.00333				.02
25	.45	.00225				.01	.41	.00390				.02
26	.39	.00195				.01	.35	.00333				.02
27	.33	.00165				.01	.29	.00276				.01
28	.33	.00165				.01	.35	.00333				.03
29	.33	.00165				0	.35	.00333				.02
30	.28	.0014				.01	.35	.00333				.02
31	.333	.00165				.01	.29	.00276				.02
Total						.49						1.07
Mean	.509	.00245					.386	.00364				
Max.	1.7	.0085					2.0	.0191				
Min.	.16	.0008					.14	.00133				

November, 1937

Da	Tarkio River (200 sq.mi.) Mean Daily Discharge C.F.S.	Mean Daily Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	Maximum Rate of Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge Time	Suspended Matter Tons Per Day	West Tarkio Creek (105 sq.mi.) Mean Daily Discharge C.F.S.	Mean Daily Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	Maximum Rate of Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge Time	Suspended Matter Tons Per Day
1	.51	.00255				.02	.29	.00276				.02
2	.28	.0014				.01	.29	.00276				.03
3	.24	.0012				.01	.29	.00276				.03
4	.24	.0012				0	.35	.00333				.02
5	.28	.0014				.01	.47	.00447				.01
6	.20	.0010				0	.47	.00447				.03
7	.28	.0014				0	.54	.00514				.03
8	.69	.00345				.03	.63	.00600				.06
9	1.5	.0075				.04	.54	.00514				.02
10	1.2	.006				.04	.47	.00447				.02
11	.85	.00425				.01	.47	.00447				.07
12	.69	.00345				.01	.47	.00447				.01
13	.63	.00315				.04	.35	.00333				.02
14	.45	.00225				.02	.21	.00200				.01
15	.33	.00165				.01	.25	.00238				.01
16	.24	.0012				.01	.21	.00200				.01
17	.24	.0012				.01	.14	.00133				.01
18	.28	.0014				.01	.12	.00114				0
19	.28	.0014				.01	.14	.00133				0
20	.16	.0008				0	.08	.000762				0
21	.12	.0006				0	.03	.000286				0
22	.02	.0001				0	.06	.000571				0
23	.09	.00045				0	.08	.000762				0
24	.24	.0012				0	.17	.00162				0
25	.57	.00285				.01	.63	.00600				.01
26	.57	.00285				0	1.1	.0105				.01
27	.57	.00285				0	.86	.00819				.07
28	.51	.00255				0	.41	.00390				.1
29	.57	.00285				.01	.29	.00276				.01
30	.33	.00165				0	.29	.00276				0
Total						.31						.56
Mean	.439	.002195					.357	.00340				
Max.	1.5	.0075					1.1	.0105				
Min	.02	.0001					.03	.000286				

December, 1937

1	.45	.00225				0	.41	.00390				0
2	.39	.00195				0	.47	.00447				.01
3	.85	.00425				0	1.1	.0105				.01
4	.69	.00345				.01	.63	.00600				.02
5	.45	.00225				0	.21	.00200				0
6	.24	.0012				0	.03	.000286				0
7	.24	.0012				0	.10	.000952				0
8	.09	.00045				0	.05	.000476				0
9	.05	.00025				0	.01	.0000952				0
10	.02	.0001				0	.01	.0000952				0
11	0	0				0	.01	.0000952				0
12	.02	.0001				0	.05	.000476				0
13	.09	.00045				0	.03	.000286				0
14	.12	.0006				0	.05	.000476				0
15	.12	.0006				0	.12	.00114				0
16	.16	.0008				0	.10	.000952				0
17	.12	.0006				0	.10	.000952				0
18	.20	.0010				0	.14	.00133				0
19	.33	.00165				0	.21	.00200				0
20	.24	.0012				0	.25	.00238				0
21	.12	.0006				0	.25	.00238				0
22	.24	.0012				0	.47	.00447				0
23	.20	.0010				0	.54	.00514				0
24	.24	.0012				0	.54	.00514				.01
25	.24	.0012				0	.47	.00447				0
26	.24	.0012				0	.29	.00276				0
27	.33	.00165				0	.41	.00390				0
28	.51	.00255				0	.47	.00447				.01
29	.51	.00255				.01	.86	.00819				.01
30	.77	.00385				.01	1.6	.0152				.04
31	.94	.0047				.01	2.2	.0210	2.9	.0276	6:00P	.1
Total						.04						.21
Mean	.297	.001485					.383	.00365				
Max.	.94	.0047					2.2	.0210				
Min.	0	0					.03	.000286				

January, 1938

Date	Tarkio River (200 sq.mi.) Mean Daily Discharge C.F.S.	Mean Daily Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	Maximum Rate of Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge Time	Suspended Matter Tons Per Day	West Tarkio Creek (108 sq.mi.) Mean Daily Discharge C.F.S.	Mean Daily Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	Maximum Rate of Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge Time	Suspended Matter Tons Per Day
1	.85	.00425	2.7	.0135	2:00P	.02	1.1	.0105				.01
2	.77	.00385				.01	.74	.00705				0
3	.77	.00385				0	.54	.00515				0
4	.51	.00255				0	.54	.00515				0
5	.63	.00315				.01	.47	.00447				0
6	.63	.00315				.01	.41	.00390				0
7	.24	.0012				0	.21	.00200				0
8	.24	.0012				0	.08	.000761				0
9	.16	.0008				0	.08	.000761				0
10	.20	.0010				0	.12	.00114				0
11	.24	.0012				0	.14	.00133				0
12	.33	.00165				0	.14	.00133				0
13	.28	.0014				0	.14	.00133				0
14	.33	.00165				0	.14	.00133				0
15	.33	.00165				0	.21	.00200				0
16	.51	.00255				0	.29	.00276				.02
17	.45	.00225				0	.35	.00333				0
18	.45	.00225				0	.47	.00447				0
19	.45	.00225				0	.54	.00515				0
20	.45	.00225				0	.63	.00600				0
21	.51	.00255				0	.63	.00600				.01
22	.57	.00285	.85	.00425	3:00A	0	.86	.00819	1.7	.0162	12:01P	.01
23	.63	.00315				0	1.0	.00952				.01
24	.69	.00345	.94	.0047	3:30P	0	.63	.00600				.02
25	.09	.00045				0	.74	.00705	4.3	.0410	10:30A	.02
26	.09	.00045				0	.08	.000761				0
27	.20	.0010				0	.05	.000476				0
28	.12	.0006				0	.06	.000570				0
29	.20	.0010				0	.10	.000952				0
30	.20	.0010				.01	.14	.00133				0
31	.07	.00035				0	.08	.000761				.01
Total						.06						.11
Mean	.393	.001965					.378	.00360				
Max.	.85	.00425					1.1	.0105				
Min.	.07	.00035					.05	.000476				

February, 1938

1	.07	.00035				0	.05	.000475				0
2	.12	.0006				0	.10	.000952				0
3	.20	.0010				0	.10	.00952				0
4	.69	.00345				.01	.54	.00514				.01
5	2.7	.0135				.2	3.1	.00295	4.1	.0390	6:00P	2.8
6	3.4	.017	6.5	.0325	6:00P	1.3	1.3	.0124				.7
7	2.6	.013	6.5	.0325	7:00P	.7	.54	.00514				.2
8	3.0	.015				1.2	1.6	.0152				.2
9	5.0	.025	10.	.05	11:45A	2.3	1.9	.0181	3.1	.0295	12:30A	2.0
10	1.3	.0065				.4	.29	.00276				.08
11	2.0	.01				.5	.63	.00600				.1
12	2.4	.012				.3	1.9	.0181				.7
13	5.3	.0265	7.5	.0375	9:30A	1.4	2.5	.0238	3.3	.0314	1:00A	2.1
14	2.4	.012				.5	.54	.00514				.05
15	.85	.00425				.1	.10	.000952				.01
16	.85	.00425				.06	.21	.00200				.01
17	1.4	.007				.03	.54	.00514				.02
18	.69	.00345				.02	.54	.00514				.02
19	.63	.00315				.02	.29	.00276				0
20	.77	.00385				.01	.35	.00333				0
21	.77	.00385				.01	.74	.00705				.01
22	.77	.00385				0	.74	.00705				.02
23	.77	.00385				.01	.63	.00600				.01
24	.94	.0047				.01	.63	.00600				.01
25	1.0	.005				0	.74	.00705				.1
26	2.1	.0105				.06	2.0	.0190				1.3
27	3.2	.016				.2	3.8	.0362	6.8	.0647	6:00P	6.6
28	12.	.06	17.	.085	5:00P	5.4	3.6	.0343				
Total						14.74						15.[illegible]
Mean	2.07	.01[illegible]					1.07	.0102				
Max.	12.	.06					3.8	.0362				
Min.	.07	.00035					.05	.000475				

March, 1938

Date	Tarkio River (200 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day	West Tarkio Creek (105 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day
1	5.3	.0265				3.1	2.4	.0228				2.5
2	3.8	.019				1.3	3.3	.0314	4.7	.0447	3:30A	5.7
3	3.0	.015				.8	2.2	.0210				2.3
4	2.3	.0115				.6	1.7	.0162				.8
5	1.5	.0075				.1	1.6	.0152				.4
6	.85	.00425				.06	.47	.00447				.02
7	.94	.0047				.04	.86	.00819				.07
8	.94	.0047				.03	1.0	.00952				.06
9	2.1	.0105				.1	2.7	.0257	4.1	.0390	6:00P	3.0
10	3.6	.018	4.2	.021	11:45P	.2	2.7	.0257				2.6
11	3.4	.017				.3	1.4	.0133				.6
12	2.3	.0115				.1	1.6	.0152				.3
13	1.7	.0085				.05	1.4	.0133				.2
14	1.4	.007				.04	1.0	.00952				.07
15	1.5	.0075				.07	1.1	.0105				.2
16	1.4	.007				.05	.86	.00819				.1
17	.94	.0047				.04	.47	.00447				.01
18	.94	.0047				.04	.41	.00390				.02
19	.85	.00425				.05	.35	.00333				.03
20	.63	.00315				.02	.29	.00276				.02
21	.39	.00195				.03	.17	.00162				.05
22	.39	.00195				.1	.14	.00133				.01
23	.33	.00165				.03	.17	.00162				.06
24	.20	.0010				.01	.14	.00133				.01
25	.28	.0014				.01	.10	.000952				0
26	.12	.0006				.01	.10	.000952				.01
27	.16	.0008				.01	.12	.00114				0
28	.20	.0010				.02	.21	.00200				.01
29	.39	.00195				.02	.47	.00447				.04
30	.69	.00345				.08	.54	.00514				.1
31	.77	.00385				.04	.25	.00238				.01
Total						7.46						19.28
Mean	1.40	.0070					.975	.00929				
Max.	5.3	.0265					3.3	.0314				
Min.	.12	.0006					.10	.000952				

April, 1938

1	1.4	.007	1.6	.008	3:00A	.1	.17	.00162				.01
2	.77	.00385				.03	.21	.00200				.01
3	.63	.00315				.03	.25	.00238				0
4	.45	.00225				.01	.25	.00238				.02
5	.57	.00285				.03	.41	.00390				.07
6	20.	.10	42.	.21	6:30P	306.	8.4	.0800	40.	.380	1:30P	510.
7	19.	.095	45.	.225	7:45A	244.	1.9	.0181				13.
8	7.7	.0385				43.	3.5	.0333	12.	.114	8:30P	11.
9	10.	.05				23.	6.1	.0580	12.	.114	6:30P	20.
10	8.4	.042				20.	6.2	.0590				25.
11	5.1	.0255				11.	3.6	.0343				7.7
12	1.9	.0095				1.5	1.1	.0105				.7
13	.83	.00415				.4	.54	.00514				.2
14	.42	.0021				.2	.47	.00448				.3
15	152.	.76	865.	4.325	10:00P	31,500.	17.	.162	212.	2.02	8:45P	5,500.
16	151.	.755				15,000.	40.	.380	158.	1.50	7:45A	4,700.
17	23.	.115				330.	14.	.133				402.
18	14.	.07	30.	.15	2:00A	229.	9.1	.0866				129.
19	3.8	.01				25.	4.1	.0390				39.
20	1.6	.008				6.4	1.7	.0162				7.3
21	1.3	.0065				3.3	1.0	.00952				3.2
22	.93	.00465				.6	.47	.00448				.4
23	.68	.0034				.4	.35	.00333				.06
24	.75	.00375				.3	.54	.00514				.1
25	.61	.00305				.2	.35	.00333				.03
26	.47	.00235				.2	.21	.00200				.02
27	1.7	.0085	5.9	.0295	9:15P	2.3	.41	.00390				.1
28	1.3	.0065				2.3	2.0	.0190	6.5	.0619	1:00A	18.
29	.78	.0039				1.2	1.4	.0133				1.1
30	.83	.00415				1.1	1.9	.0181				.9
T[illegible]						47,811.60						11,[illegible]
M[illegible]	14.4	.072					4.25	[illegible]				
M[illegible]	152.	.76					40.	[illegible]				
Min.	.42	.0021					.17	.00162				

May, 1938

Date	Tarkio River (200 sq.mi.) Mean Daily Discharge C.F.S.	Mean Daily Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	Maximum Rate of Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge Time	Suspended Matter Tons Per Day	West Tarkio Creek (105 sq.mi.) Mean Daily Discharge C.F.S.	Mean Daily Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	Maximum Rate of Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge Time	Suspended Matter Tons Per Day
1	.25	.00125				.2	.86	.00819				.4
2	.21	.00105				.1	.47	.00447				.1
3	.16	.0008				.07	.29	.00276				.1
4	223.	1.115	590.	2.95	2:30P	26,000.	78.	.743	447.	4.25	3:00P	11,500.
5	88.	.44				5,720.	50.	.476				3,030.
6	14.	.07				254.	18.	.171				520.
7	207.	1.035	333.	1.665	7:15A	16,900	77.	.733	275.	2.62	5:00A	6,060.
8	53.	.265				1,600.	49.	.466				1,490.
9	15.	.075				90.	12.	.114				103.
10	6.2	.031				12.	5.1	.0485				18.
11	4.0	.020				3.6	3.3	.0314				6.3
12	2.7	.0135				1.8	3.6	.0342				8.1
13	1.8	.009				.5	2.2	.0209				1.7
14	1.9	.0095				.6	2.4	.0228				2.2
15	1.6	.008				.2	1.3	.0124				.4
16	1.5	.0075				1.1	1.0	.00952				.3
17	6.2	.031	10.	.05	5:30A	22.	7.4	.0705	13.	.124	8:00A	38.
18	7.4	.037				5.8	2.7	.0257				1.8
19	6.4	.032				17.	4.3	.0410				8.6
20	94.	.47	244.	1.22	10:30A	5,300.	22.	.209	325.	3.09	6:15A	4,050.
21	27.	.135				663.	8.0	.0761				62.
22	8.0	.040				76.	4.3	.0410				16.
23	3.8	.018				19.	2.2	.0209				7.4
24	2.1	.0105				4.2	1.3	.0124				1.7
25	2.5	.0125				2.3	41.	.390	545.	5.19	6:45P	4,140.
26	14.	.07	26.	.13	6:00A	159.	3.5	.0333				26.
27	5.3	.0265				46.	1.1	.0105				1.1
28	2.5	.0125				15.	15.	.143	32.	.304	6:30A	322.
29	1.5	.0075				4.5	4.7	.0447				31.
30	1.2	.006				1.4	2.4	.0228				6.4
31	661.	3.305	2400.	12.00	6:30P	95,800.	34.	.323	187.	1.78	9:30A	2,460.
Total						152,719.37						33,922.6
Mean	47.2	.236					14.8	.141				
Max.	661.	3.305					78.	.742				
Min.	.6	.0008					.29	.00276				

June, 1938

1	325.	1.625	221.	1.105	10:30P	23,000.	65.	.619	181.	1.72	8:30P	5,000.
2	81.	.405				4,240.	46.	.438				1,850.
3	16.	.08				173.	24.	.229	46.	.438	2:00A	694.
4	8.8	.044				38.	5.6	.0533				51.
5	4.5	.0225				10.	2.9	.0276				19.
6	2.7	.0135				4.1	2.0	.0190				7.3
7	1.8	.009				1.3	1.1	.0105				2.3
8	1.3	.0065				.3	.74	.00705				.9
9	.83	.00415				.08	.41	.00390				.1
10	15.	.075				196.	48.	.457				298.
11	399.	1.995	811.	4.055	9:00A	41,900.	692.	6.59	5600.	53.3	1:00A	88,600.
12	39.	.195				910.	92.	.876	190.	1.81	10:30A	3,920.
13	8.8	.044				45.	13.	.124				122.
14	82.	.41	790.	3.95	8:00P	9,200.	96.	.913	790.	7.52	7:45P	11,100.
15	47.	.235	63.	.315	3:30P	1,190.	16.	.152				198.
16	15.	.075	20.	.10	11:30A	164.	146.	1.39	2280.	21.7	10:30A	13,300.
17	5.1	.0255				20.	9.9	.0941				25.
18	2.5	.0125				3.8	4.5	.0428				2.6
19	1.4	.007				1.5	3.3	.0314				1.1
20	.83	.00415				.3	2.4	.0228				.3
21	.61	.00305				.2	2.0	.0190				.2
22	.54	.0027				.06	1.7	.0162				.2
23	.42	.0021				.05	1.4	.0133				.07
24	.37	.00185				.04	1.1	.0105				.07
25	.42	.0021				.04	1.1	.0105				.1
26	.54	.0027				.04	1.1	.0105				.06
27	.37	.00185				.02	.63	.00600				.04
28	.33	.00165				.02	.47	.00447				.04
29	.33	.00165				.03	.35	.00333				.03
30	.25	.00125				.04	.35	.00333				.04
Total						81,037.82						125,192.45
Mean	38.4	.177					22.7	[illegible]				
Max.	399.	1.995					692.	[illegible]				
Min.	.25	.00125					.35	[illegible]				

July, 1938

Date	Tarkio River (200 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day	West Tarkio Creek (105 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day
1	.19	.00095				.02	.25	.00238				.04
2	.29	.00145				.05	.63	.00600				.2
3	.19	.00095				.02	.25	.00238				.02
4	.07	.00035				.01	.14	.00133				.01
5	.07	.00035				.01	.12	.00114				.02
6	.37	.00185				.04	.29	.00276				.06
7	8.9	.0445	34.	.17	4:30A	107.	16.	.152	92.	.875	1:45A	820.
8	1.8	.009				3.8	.47	.00448				.2
9	.2	.006				.01	.21	.00200				.06
10	.54	.0027				.1	.17	.00162				.05
11	.33	.00165				.04	.14	.00133				.04
12	.19	.00095				.01	.14	.00133				.02
13	.19	.00095				.01	.17	.00162				.04
14	.16	.0008				.04	.14	.00133				.03
15	.13	.00065				.01	.14	.00133				.02
16	.16	.0008				.01	.21	.00200				.04
17	1.3	.0065	2.5	.0125	9:30A	.4	1.1	.0105	1.6	.0152	8:00A	.1
18	.37	.00185				.1	.29	.00276				.04
19	.21	.00105				.02	.25	.00238				.03
20	.19	.00095				.03	.17	.00162				.01
21	.13	.00065				.03	.25	.00238	1.1	.0105	10:00P	.1
22	.25	.00125				.03	.35	.00333				.04
23	5.0	.025	9.6	.048	5:00A	2.6	.25	.00238				.03
24	1.8	.009				4.3	.14	.00133				.02
25	.68	.0034				1.2	.14	.00133				.01
26	.54	.0027				.7	.29	.00276				.02
27	.54	.0027				.3	.47	.00448				.05
28	18.	.09	32.	.16	8:00A	202.	.21	.00200				.02
29	5.3	.0265				25.	.14	.00133				.02
30	3.4	.017				9.9	.35	.00333				.08
31	1.4	.007				5.0	1.9	.0181	5.4	.0514	2:30A	.8
Total						362.79						892.82
Mean	1.74	.087					.831	.00791				
Max.	18.	.09					16.	.152				
Min.	.07	.00035					.12	.00114				

August, 1938

1	.61	.00305				.7	.35	.00333				.1
2	.29	.00145				.3	.17	.00162				.02
3	.21	.00105				.2	.12	.00114				.01
4	.19	.0095				.07	.10	.000952				.02
5	.19	.00095				.1	.08	.000761				.01
6	46.	.23	305.	1.525	6:00A	1940.	54.	.515	406.	3.86	8:00A	2,570.
7	18.	.08				160.	1.0	.00952				3.4
8	11.	.055				120.	.74	.00705				.8
9	2.7	.0135				4.0	.47	.00448				.8
10	1.2	.006				1.7	.14	.00133				.02
11	.61	.00305				.4	.12	.00114				.08
12	.33	.00165				.1	.08	.000761				.02
13	.25	.00125				.1	.06	.000571				.01
14	.19	.00095				.1	3.0	.0286	38.	.362	10:30P	18.
15	3.6	.018	7.4	.037	8:00A	22.	8.4	.0800	10.	.0952	3:30P	45.
16	6.5	.0325	11.	.055	9:00A	17.	2.0	.0190				3.9
17	4.5	.0225				6.6	.63	.00600				.3
18	2.1	.0105				1.6	.29	.00276				.1
19	.75	.00375				.6	.21	.00200				.1
20	724.	3.62	4130.	20.65	6:45P	47,600.	433.	4.12	3200.	31.4	7:00P	30,000.
21	518.	2.59				10,800.	147.	1.40	158.	1.87	2:00P	3,610.
22	28.	.14				121.	68.	.648				696.
23	7.0	.035				14.	12.	.114				25.
24	3.1	.0155				5.4	4.1	.0390				4.2
25	1.6	.008				1.7	2.0	.0190				1.2
26	.83	.00415				.7	1.1	.0105				.4
27	.68	.0034				.6	.74	.00705				.2
28	678.	3.39	1770.	8.85	10:45A	39,000.	99.	.942	462.	4.40	6:00A	6,300.
29	148.	.74				1,550.	248.	2.36	322.	3.06	4:[illegible]	4,500.
30	15.	.075				31.	42.	.400				100.
31	87.	.435	200.	1.00	11:00A	2,230.	22.	.210	61.	.580	1:15A	7[illegible]
Total						111,429.97						47,383.73
Mean	74.5	.3725					37.1	.354				
Max.	724.	3.62					433.	4.12				
Min.	.19	.00095					.06	.00072				

September, 1938

Date	Turkio River (200 sq.mi.) Mean Daily Discharge C.F.S.	Mean Daily Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	Maximum Rate of Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge Time	Suspended Matter Tons Per Day	West Turkio Creek (105 sq.mi.) Mean Daily Discharge C.F.S.	Mean Daily Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	Maximum Rate of Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge Time	Suspended Matter Tons Per Day
1	106.	.53	212.	1.06	3:15A	2,470.	47.	.448	76.	.724	2:30P	381.
2	30.	.15				162.	18.	.171				55.
3	7.7	.0385				12.	6.5	.0619				6.9
4	3.1	.0155				3.8	3.3	.0314				2.1
5	16.	.08	80.	.40	2:15P	494.	62.	.590	349.	3.32	1:00P	2,660.
6	7.0	.035				30.	5.1	.0485				14.
7	5.6	.028				9.4	2.7	.0257				2.2
8	4.0	.020				2.3	1.9	.0181				.3
9	4.0	.020				3.9	2.7	.0257				.5
10	15.	.075				1,080.	157.	1.495	1720.	16.35	8:30P	12,200.
11	403.	2.015	960.	4.80	1:45P	27,900.	142.	1.35	542.	5.16	4:00A	4,100.
12	116.	.58				1,470.	126.	1.20	172.	1.635	6:00P	1,820.
13	355.	1.775	845.	4.225	2:00P	16,600.	202.	1.925	770.	7.33	10:45A	7,620.
14	193.	.965				6,160.	89.	.848	116.	1.10	12:01P	1,120.
15	23.	.115				93.	20.	.190				59.
16	9.5	.048				14.	8.3	.0790				9.0
17	6.4	.032				5.7	5.9	.0561				3.6
18	5.3	.0265				2.2	4.5	.0428				1.9
19	4.5	.0225				1.5	3.8	.0362				.8
20	4.0	.02				.6	3.5	.0334				.3
21	2.9	.0145				.2	2.9	.0276				.2
22	2.5	.0125				.09	2.7	.0257				.1
23	2.2	.011				.06	2.4	.0228				.2
24	1.9	.0095				.09	2.2	.0210				.1
25	1.8	.009				.05	2.0	.0190				.08
26	1.4	.007				.05	1.7	.0162				.03
27	1.2	.006				.04	1.4	.0133				.05
28	1.0	.005				.02	1.3	.0124				.06
29	.93	.00465				.03	1.1	.0105				.04
30	.93	.00465				.04	1.0	.00952				.04
Total						56,515.07						30,077.52
Mean	44.5	.2225					31.0	.295				
Max.	403.	2.015					202.	1.925				
Min.	.93	.00465					1.0	.00952				

October, 1938

1	.75	.00375				.04	1.1	.0105				.09
2	.68	.0034				.04	1.0	.00952				.06
3	.68	.0034				.05	.86	.00819				.03
4	.61	.00305				.05	.74	.00705				.09
5	.54	.0027				.05	.74	.00705				.03
6	.47	.00235				.04	.74	.00705				.05
7	.42	.0021				.05	.74	.00705				.07
8	.54	.0027				.06	.74	.00705				.05
9	.37	.00185				.02	.74	.00705				.05
10	.37	.00185				.03	.54	.00515				.02
11	.61	.00305				.06	.74	.00705				.02
12	.61	.00305				.05	1.1	.0105				.1
13	.54	.0027				.05	.74	.00705				.04
14	.47	.00235				.05	.47	.00448				.02
15	.47	.00235				.05	.41	.00390				.09
16	.54	.0027				.05	.47	.00448				.03
17	.47	.00235				.05	.41	.00390				.04
18	.42	.0021				.02	.47	.00448				.03
19	.33	.00165				.02	.47	.00448				.05
20	.29	.00145				.01	.54	.00515				.01
21	.29	.00145				.01	.54	.00515				.02
22	.33	.00165				.05	.54	.00515				.05
23	.33	.00165				.01	.47	.00448				.02
24	.29	.00145				.01	.54	.00515				.02
25	.29	.00145				0	.54	.00515				.02
26	.33	.00165				.01	.54	.00515				.02
27	.33	.00165				.02	.47	.00448				.02
28	.37	.00185				.01	.47	.00448				.02
29	.42	.0021				.02	.47	.00448				.02
30	.37	.00185				.01	.54	.00515				.01
31	.37	.00185				.01	.54	.00515				.02
Total						1.00						1.21
Mean	.448	.00224				[illegible]	[illegible]	[illegible]				
Max.	.75	.00375				[illegible]	[illegible]	[illegible]				
Min.	.29	.00145				[illegible]	[illegible]	[illegible]				

November, 1938

Date	Tarkio River (200 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day	West Tarkio Creek (105 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day
1	.47	.00235				.05	.74	.00705				.03
2	.83	.00415				.1	1.6	.0152				.2
3	53.	.265	96.	.48	6:20P	479.	22.	.210	60.	.571	2:00P	222.
4	40.	.20				288.	9.1	.0867				21.
5	9.2	.046				30.	13.	.124				23.
6	3.6	.018				6.3	5.4	.0515				8.6
7	1.9	.0095				2.2	3.6	.0342				2.2
8	1.3	.0065				1.0	2.4	.0228				.8
9	1.3	.0065				.7	2.5	.0238				.8
10	1.2	.006				.7	2.0	.0190				.6
11	1.3	.0065				.3	2.0	.0190				.2
12	1.4	.007				.2	2.0	.0190				.2
13	1.2	.006				.1	1.9	.0181				.1
14	.93	.00465				.05	1.6	.0152				.05
15	.83	.00465				.05	1.6	.0152				.07
16	.93	.00465				.05	1.6	.0152				.06
17	.93	.00465				.04	1.4	.0133				.05
18	.93	.00465				.1	1.3	.0124				.08
19	.93	.00465				.05	1.1	.0105				.03
20	.83	.00415				.03	1.4	.0133				.05
21	.83	.00415				.08	1.1	.0105				.07
22	.42	.0021				.02	.47	.00448				.02
23	.47	.00235				.02	.35	.00333				.01
24	.25	.00125				.01	.25	.00238				.01
25	.29	.00145				.01	.25	.00238				.01
26	.19	.00095				.01	.21	.00200				.01
27	.13	.00065				.01	.08	.000762				0
28	.21	.00105				.01	.14	.00133				0
29	.37	.00185				.01	.35	.00333				0
30	.42	.0021				.01	.54	.00515				.01
Total						809.21						278.26
Mean	4.22	.0211					2.73	.0260				
Max.	53.	.265					22.	.210				
Min.	.13	.00065					.08	.000762				

December, 1938

1	.54	.0027				.01	1.0	.00952				.01
2	1.0	.005				.03	1.7	.0162				.05
3	2.4	.012	4.7	.0235	11:45P	.3	2.4	.0228				.2
4	4.2	.021				.5	2.5	.0238				.3
5	3.4	.017				.4	2.7	.0257	7.1	.0676	9:10A	.4
6	2.2	.011				.2	1.7	.0162				.2
7	2.4	.012				.2	1.9	.0181				.6
8	2.1	.0105				.1	2.0	.0190				.5
9	1.4	.007				.06	.86	.00819				.07
10	1.4	.007				.08	1.3	.0124				.1
11	1.5	.0075				.09	1.6	.0152				.1
12	.75	.00375				.01	.47	.00447				.03
13	.75	.00375				.02	.47	.00447				.04
14	.61	.00305				.02	.54	.00515				.05
15	.47	.00235				.01	.86	.00819				.05
16	.68	.0034				.01	1.1	.0105				.06
17	.47	.00235				.01	.63	.00600				.03
18	.54	.0027				.01	.63	.00600				.02
19	.42	.0021				.01	.74	.00705				.03
20	.42	.0021				.01	.74	.00705				.01
21	.33	.00165				.01	.54	.00515				.01
22	.37	.00185				.01	.41	.0039				.01
23	.47	.00235				.01	.74	.00705				.02
24	.47	.00235				.01	.74	.00705				.01
25	.54	.0027				.02	1.0	.00952				.02
26	.61	.00305				.01	.86	.00819				.03
27	.21	.00105				0	.35	.00333				.02
28	.16	.0008				.01	.21	.00200				.01
29	.16	.0008				0	.17	.00162				.01
30	.07	.00035				0	.09	.000771				0
31	.10	.0005				.01	.10	.000952				0
Total						2.17						3.00
Mean	1.00	.005					1.00	.00952				
Max.	4.2	.021					2.7	.0257				
Min.	.07	.00035					.09	.000771				

January, 1939

Date	Tarkio River (200 sq.mi.) Mean Daily Discharge C.F.S.	Mean Daily Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	Maximum Rate of Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge Time	Suspended Matter Tons Per Day	West Tarkio Creek (105 sq.mi.) Mean Daily Discharge C.F.S.	Mean Daily Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	Maximum Rate of Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge Time	Suspended Matter Tons Per Day
1	.16	.0008				.02	.17	.00162				.02
2	.42	.0021				.03	.25	.00238				.01
3	.54	.0027				.01	.74	.00705				.03
4	1.3	.0065				.04	2.7	.0257				.1
5	2.7	.0135				.6	2.4	.0228				.1
6	2.5	.0125	7.7	.0385	11:45P	.3	1.3	.0124				.2
7	2.2	.011				.2	1.6	.0152				.2
8	2.5	.0125				.2	2.0	.0190				.3
9	5.1	.0255				1.0	4.9	.0466				.5
10	4.7	.0235				1.2	2.2	.0210				.8
11	3.1	.0155				.5	1.3	.0124				.4
12	2.2	.011				.3	1.1	.0105				.1
13	2.7	.0135				.2	1.4	.0133				.3
14	1.3	.0065				.1	1.3	.0124				.4
15	1.2	.006				.02	.54	.00514				.07
16	.83	.00415				.01	.5	.00475				.06
17	.75	.00375				.02	.4	.00380				.02
18	.61	.00305				.02	.3	.00286				.01
19	.54	.0027				.01	.41	.00390				.01
20	.54	.0027				.02	.54	.00514				.01
21	.83	.00415				.05	1.0	.00952				.01
22	.54	.0027				.01	.63	.00600				.01
23	.61	.00305				.03	.41	.00390				.01
24	.68	.0034				.02	.41	.00390				0
25	.68	.0034				.02	.54	.00514				0
26	.68	.0034				.01	.74	.00705				.01
27	.54	.0027				.02	.86	.00819				0
28	.76	.0038				.03	1.4	.0133				.02
29	1.0	.005				.03	1.9	.0181				.07
30	1.5	.0075				.04	1.9	.0181				.04
31	2.4	.012				.09	2.0	.0190				.05
Total						5.15						3.86
Mean	1.49	.00745					1.22	.0116				
Max.	5.1	.0255					4.9	.0466				
Min.	.16	.0008					.17	.00162				

February, 1939

1	2.9	.0145				.2	2.4	.0228				.03
2	2.4	.012				.1	2.0	.0190				.05
3	1.9	.0095				.1	1.1	.0105				.01
4	1.4	.007				.07	.74	.00705				.02
5	1.3	.0065				.06	1.3	.0124				.01
6	1.5	.0075				.03	1.6	.0152				.02
7	1.8	.009				.06	1.7	.0162				.03
8	.75	.00375				.02	.4	.00380				.02
9	.47	.00235				.03	.2	.00190				.01
10	.16	.0008				.01	.1	.000952				.04
11	.02	.0001				0	.01	.0000952				0
12	.02	.0001				0	.08	.000761				.02
13	8.0	.04	40.	.20	7:45P	15.	1.0	.00952	5.4	.0514	5:15P	.5
14	34.	.17	60.	.30	4:15P	70.	3.6	.0342	6.8	.0647	3:30P	2.4
15	20.	.10				31.	2.2	.0210				1.1
16	8.8	.044				8.8	1.0	.00952				.3
17	4.2	.021				3.4	5.0	.0476	27.	.257	3:30P	4.0
18	7.7	.0385				5.2	6.5	.0619	29.	.276	1:30P	4.4
19	120.	.60	177.	.885	6:00A	2,340.	6.2	.0590				5.5
20	16.	.08				70.	3.1	.0295				2.3
21	5.9	.0295				12.	2.5	.0238				1.2
22	7.7	.0385				12.	2.2	.0210				1.1
23	5.6	.028				4.9	2.7	.0257				1.4
24	4.7	.0235				3.6	4.3	.0410				1.8
25	3.3	.0165				2.6	3.5	.0333				1.8
26	3.1	.0155				1.8	3.3	.0314				1.1
27	2.7	.0135				1.3	2.9	.0276				.9
28	2.1	.0105				1.2	2.4	.0228				.7
Total						2,583.43						30.75
Mean	9.59	.04795					2.29	[illegible]				
Max.	120.	.60					6.5	[illegible]				
Min.	.02	.0001					.01	[illegible]				

March, 1939

Date	* Tarkio River (200 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day	*West Tarkio Creek (105 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day
1	1.8	.009				.7	1.7	.0162				.3
2	1.5	.0075				.5	1.7	.0162				.3
3	.83	.00415				.3	1.9	.0181				.3
4	1.2	.006				.4	2.0	.0190				.3
5	6.4	.032				1.9	2.2	.0210				.7
6	8.4	.042				4.4	4.9	.0466				1.9
7	78.	.39	260.	1.30	8:00P	360.	20.	.190	72.	.685	9:30P	31.
8	1,050.	5.25	2540.	12.70	8:30P	23,100.	507.	4.82	1670.	15.9	4:45P	21,900.
9	917.	4.585	1320.	6.60	9:00P	2[illegible],000.	362.	3.44	970.	9.24	7:30P	15,200.
10	660.	3.30	1210.	6.05	10:00P	30,[illegible].	3[illegible].	3.66	6[illegible].	6.52	7:00P	14,[illegible].
11	2,680.	13.00				190,000.	2670.	1[illegible].9	6[illegible].	6[illegible].3	10:00P	1[illegible],000.
12	4,790.	23.95	9920.	49.90	1:45A	208,000.	2020.	19.25				81,800.
13	261.	1.305				12,000.	213.	2.02				3,730.
14	90.	.45				1,540.	36.	.342				676.
15	14.	.07				144.	21.	.200				87.
16	9.3	.0465				36.	16.	.152				35.
17	13.	.065				34.	13.	.124				20.
18	8.5	.0425				15.	11.	.105				21.
19	13.	.065				18.	10.	.0952				22.
20	12.	.06				15.	9.	.0856				16.
21	8.5	.06				8.7	8.	.0761				7.5
22	7.2	.036				5.4	7.	.0666				6.4
23	6.1	.0305				3.5	6.	.0571				5.6
24	5.6	.028				2.7	5.	.0476				7.8
25	21.	.205	60.	.30	6:00P	48[illegible].	4.8	.0457	5.4	.0514	8:00A	4.3
26	16.	.08				274.	3.8	.0362				2.5
27	6.1	.0305				64.	4.0	.0380				1.5
28	4.3	.0215				11.	3.8	.0362				.8
29	5.2	.026				8.6	4.3	.0410				1.0
30	6.1	.0305				9.6	4.6	.0438				2.6
31	6.1	.0305				5.1	4.0	.0380				1.3
Total						497,552.8						272,[illegible]3.1
Mean	343.	1.715					1.73	.0165				
Max.	4720.	23.95					[illegible].	19.25				
Min.	.83	.00415					1.7	.0162				

April, 1939

1	6.6	.033				3.8	4.3	.0409				2.4
2	6.6	.033				7.9	3.8	.0362				2.0
3	4.8	.024				4.0	2.9	.0276				.8
4	8.5	.0425	84.	.42	10:00P	575.	17.	.162	97.	.924	10:00P	870.
5	41.	.205				1,240.	15.	.143				620.
6	10.	.05				150.	5.4	.0514				12.
7	4.3	.0215				17.	4.6	.0438				5.9
8	3.9	.0195				5.6	3.5	.0333				4.2
9	3.5	.0175				2.7	3.8	.0362				2.6
10	4.3	.0215				5.3	4.8	.0457				10.
11	3.9	.0195				3.6	3.8	.0362				1.9
12	1.7	.0085				.5	3.5	.0333				1.4
13	2.3	.0115				.5	3.3	.0314				.8
14	2.7	.0135				.7	3.3	.0314				.7
15	6.6	.033	10.	.05	3:55P	20.	6.0	.0571	9.4	.0895	8:00A	23.
16	8.5	.0425				11.	3.5	.0333				3.6
17	7.2	.036				4.6	4.8	.0457				23.
18	18.	.09	23.	.115	11:30A	56.	9.1	.0866	11.	.105	7:30A	37.
19	14.	.07				20.	6.6	.0629				6.1
20	11.	.055				7.5	6.0	.0571				4.6
21	6.6	.033				1.5	4.6	.0437				3.0
22	4.3	.0215				.07	3.8	.0362				.6
23	3.5	.0175				.4	2.4	.0229				.3
24	2.0	.01				.2	1.7	.0162				.2
25	1.7	.0085				.1	1.9	.0181				.1
26	1.2	.006				.03	1.6	.0152				.09
27	1.4	.007				.03	1.7	.0162				.08
28	1.2	.006				.04	1.3	.0124				.05
29	1.2	.006				.04	1.1	.0105				.06
30	1.0	.005				.02	1.6	.0152				.09
Total						2,128.13						1,63[illegible].57
Mean	6.45	.0[illegible]					4.57	.0[illegible]				
Max.	41.	.205					17.	.162				
Min.	1.0	.005					1.1	.0105				

*See note on Sheet 7

May, 1939

Date	*Tarkio River (200 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day	*West Tarkio Creek (105 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day
1	1.2	.006				.05	1.3	.0124				.09
2	1.4	.007				.04	.69	.00656				.04
3	1.2	.006				.03	1.0	.00952				.04
4	1.2	.006				.04	1.3	.0124				.07
5	1.0	.005				.04	1.3	.0124				.05
6	.90	.0045				.06	1.1	.0105				.05
7	1.0	.005				.07	.90	.00856				.04
8	.80	.004				.06	1.3	.0124				.05
9	.90	.0045				.09	.90	.00856				.04
10	.80	.004				.07	.90	.00856				.04
11	.70	.0035				.08	.79	.00752				.04
12	.60	.0035				.06	.79	.00752				.04
13	.50	.0030				.03	.79	.00752				.05
14	.60	.0025				.08	.79	.00752				.04
15	.60	.0030				.05	.79	.00752				.03
16	.60	.0030				.06	.69	.00656				.03
17	.60	.0030				.05	122.	1.16	1580.	15.05	8:15P	24,400.
18	1.2	.006				.3	13.	.124				880.
19	4.8	.024				4.1	1.9	.0181				10.
20	2.3	.0115				3.4	1.9	.0181				1.6
21	1.2	.006				.7	1.0	.00952				1.3
22	1.0	.005				.8	1.1	.0105				.6
23	.90	.0045				.3	1.0	.00952				.3
24	.90	.0045				.3	.90	.00856				.2
25	4.3	.0215				20.	5.4	.0514	12.	.114	11:15A	398.
26	24.	.12	68.	.34	5:00A	188.	30.	.286	325.	3.10	7:45P	4700.
27	5.6	.028				26.	18.	.1715	165.	1.57	8:30P	1730.
28	3.5	.0175				9.1	4.6	.0438				26.
29	1.7	.0085				1.7	2.4	.0228				2.8
30	1.2	.006				.9	1.4	.0133				.8
31	.90	.0045				.4	1.0	.00952				.3
Total						256.96						32,152.64
Mean	2.20	.0110					7.13	.0679				
Max.	24.	.12					122.	1.16				
Min.	.50	.0025					.69	.00656				

June, 1939

1	.50	.0025				.2	.90	.00856				.5
2	2.3	.0115	8.5	.0425	11:15A	60.	22.	.210	156.	1.485	12:30P	2,020.
3	11.	.055	22.	.11	6:00A	191.	2.3	.0219				25.
4	3.9	.0195				29.	1.1	.0105				3.0
5	.90	.0045				4.2	.69	.00656				1.5
6	.70	.0035				1.5	.60	.00571				.5
7	390.	1.95	2670.	13.35	9:30P	91,800.	31.	.295	358.	3.41	6:30P	5,100.
8	497.	2.485				43,700.	76.	.723				7,310.
9	511.	2.555	998.	4.99	3:00A	38,200.	343.	3.26	2100.	20.0	12:30A	36,900.
10	760.	3.80	1600.	8.00	3:00P	76,200.	328.	3.12	2470.	23.5	10:00A	31,000.
11	222.	1.11				8,640.	157.	1.495				3,240.
12	16.	.08				138.	23.	.219				272.
13	232.	1.16	850.	4.25	12:45P	14,300.	39.	.371	164.	1.56	10:45A	[illegible]
14	48.	.24				1,190.	50.	.476	64.	.610	12:00N	[illegible]
15	12.	.06				64.	12.	.114				[illegible]
16	5.6	.028				16.	5.1	.0485				[illegible]
17	1.4	.007				3.4	2.9	.0276				[illegible]
18	27.	.135				3,200.	60.	.571	405.	3.86	7:30P	8,800.
19	428.	2.14	994.	4.97	1:15A	44,900.	137.	1.305				[illegible]
20	34.	.17				710.	181.	1.725	194.	1.85	12:01A	9,860.
21	1060.	5.30	2480.	12.40	1:15A	[illegible]	723.	6.89	2990.	28.5	12:45A	[illegible]
22	745.	3.725	1710.	8.55	12:30A	49,600.	652.	6.20	3750.	35.7	12:45A	[illegible]
23	84.	.42				1,340.	78.	.742				940.
24	26.	.13				91.	22.	.210				87.
25	154.	.77	586.	2.93	5:30P	9,900.	63.	[illegible]	174.	1.66	4:00P	3,200.
26	38.	.19				810.	[illegible]	[illegible]				[illegible]
27	16.	.08				35.	14.	.133				20.
28	11.	.055				12.	11.	.105				12.
29	13.	.065				17.	7.3	.0695				4.5
30	8.0	.040				5.1	6.3	.0600				2.1
Total						471,957.[illegible]						222,[illegible].7
Mean	179.	[illegible]					[illegible]	[illegible]				
Max.	1060.	[illegible]					[illegible]	[illegible]				
Min.	5.[illegible]	[illegible]					.69	[illegible]				

* See note on Sheet 7

July, 1939

Date	* Tarkio River (200 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day	* West Tarkio Creek (105 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day
1	9.0	.045				10.	6.6	.0629				4.1
2	8.2	.041				9.1	6.3	.0600				2.[illegible]
3	6.0	.030				2.8	5.1	.0485				2.0
4	1,150.	5.75	3290.	16.45	3:00A	64,900.	293.	2.79	393.	3.74	2:15A	14,000.
5	1,240.	6.20	3200.	16.00	10:45A	88,900.	76.	.723				1,000.
6	136.	.68				3,300.	246.	2.34	430.	4.10	2:45P	4,230.
7	23.	.115				128.	27.	.257				155.
8	11.	.055				24.	13.	.124				34.
9	7.3	.0365				7.1	8.7	.0828				6.5
10	5.4	.027				2.8	6.6	.0629				3.7
11	3.8	.019				.4	4.3	.0409				.3
12	3.1	.0155				.1	3.3	.0314				.3
13	2.1	.0105				.09	2.6	.0248				.04
14	2.3	.0115				.08	2.3	.0219				.03
15	1.7	.0085				.08	2.3	.0219				.1
16	1.6	.008				.1	1.9	.0181				.05
17	2.4	.012				.3	3.3	.0314				1.0
18	2.9	.0145				.3	2.4	.0228				.08
19	2.6	.013				.2	2.1	.0200				.03
20	6.2	.031				.6	5.6	.0533	19.	.181	9:00A	9.6
21	2.7	.0135				.2	5.4	.0514				9.2
22	1.6	.008				.1	2.3	.0219				1.9
23	1.7	.0085				.1	1.1	.0105				.6
24	1.2	.006				.07	.79	.00752				.6
25	167.	.835				10,100.	108.	1.03	674.	6.42	4:45A	7,000.
26	49.	.245				995.	17.	.162				113.
27	11.	.055				43.	9.8	.0933				3.9
28	195.	.975	470.	2.70	1:30P	13,600.	81.	.771	430.	4.10	7:00A	5,600.
29	36.	.18				600.	5.4	.0514				17.
30	6.8	.034				21.	10.	.0952				51.
31	2.7	.0135				4.2	4.0	.0380				9.1
Total						182,649.72						32,290.93
Mean	100.	.50					31.1	.296				
Max.	1240.	6.20					293.	2.79				
Min.	1.2	.006					.79	.00752				

August, 1939

1	1.8	.009				1.6	2.3	.0219				2.6
2	35.	.175	72.	.36	8:00A	522.	1.3	.0124				.9
3	12.	.06				82.	1.0	.00952				.2
4	3.1	.0155				5.9	1.1	.0105				.2
5	2.1	.0105				2.7	.90	.00856				.1
6	1.4	.007				1.2	.69	.00656				.1
7	18.	.09				750.	33.	.314	430.	4.10	11:45P	2,050.
8	177.	.885	315.	1.575	5:00A	8,320.	55.	.523				1,470.
9	42.	.21				476.	13.	.124				32.
10	21.	.105				425.	13.	.124				55.
11	690.	3.45	1840.	9.20	3:00A	23,400.	4.0	.0380				5.7
12	62.	.31				450.	113.	1.075	190.	1.81	8:00A	1,760.
13	7.3	.0365				12.	32.	.304				76.
14	4.4	.022				3.8	4.0	.0380				4.3
15	2.7	.0135				1.7	3.3	.0314				1.9
16	2.4	.012				1.0	3.1	.0295				2.6
17	166.	.83	356.	1.78	6:30A	1,990.	2.4	.0228				.4
18	22.	.11				58.	1.4	.0133				.09
19	15.	.075				24.	1.4	.0133				.04
20	5.2	.026				17.	1.4	.0133				.02
21	2.6	.013				4.6	1.3	.0124				.02
22	2.6	.013				2.5	1.3	.0124				.09
23	11.	.055				39.	2.1	.0200				.08
24	2.9	.0145				7.5	1.1	.0105				.01
25	2.0	.010				3.4	3.1	.0295				.2
26	1.0	.005				.5	1.3	.0124				.04
27	.73	.00365				.2	.90	.00856				.04
28	.56	.0028				.1	.69	.00656				.02
29	.34	.0017				.08	.52	.00495				.03
30	.48	.0024				.1	.52	.00495				.03
31	.34	.0017				.08	.44	.00419				.03
Total						41,601.96						5,[illegible].73
Mean	42.[illegible]	.[illegible]					9.70	.[illegible]				
Max.	690.	3.[illegible]					113.	1.[illegible]				
Min.	.34	.0017					.44	.00419				

* See note on Sheet 7

September, 1939

Date	*Tarkio River (200 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day	* West Tarkio Creek (105 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day
1	.34	.0017				.04	.31	.00295				.01
2	.39	.00195				.05	.52	.00495				.02
3	.23	.00115				.04	.37	.00352				.04
4	.34	.0017				.05	.17	.00162				.01
5	.28	.0014				.04	.17	.00162				0
6	.28	.0014				.03	.17	.00162				.01
7	.28	.0014				.03	.14	.00133				.01
8	.23	.00115				.02	.14	.00133				.01
9	.17	.00085				.01	.14	.00133				.01
10	.17	.00085				.02	.21	.00200				.01
11	.12	.0006				.01	.17	.00162				.01
12	.10	.0005				.01	.11	.00105				0
13	.10	.0005				.01	.09	.000856				0
14	.09	.00045				.01	.07	.000666				0
15	.10	.0005				.01	.11	.00105				0
16	.09	.00045				0	.11	.00105				0
17	.09	.00045				.01	.09	.000856				0
18	.10	.0005				.01	.11	.00105				0
19	.17	.00085				.01	.14	.00133				.01
20	.23	.00115				.02	.17	.00162				0
21	.23	.00115				.02	.17	.00162				0
22	.23	.00115				.01	.21	.00200				0
23	.28	.0014				.01	.21	.00200				.01
24	.28	.0014				.01	.21	.00200				.01
25	.34	.0017				.02	.17	.00162				.01
26	.28	.0014				.01	.17	.00162				.01
27	.28	.0014				.01	.21	.00200				0
28	.28	.0014				.02	.25	.00238				.01
29	.82	.0041				.1	.52	.00495				.08
30	.48	.0024				.03	.37	.00352				.01
Total						.67						.29
Mean	.247	.001235					.200	.00190				
Max.	.82	.0041					.52	.00495				
Min.	.09	.00045					.07	.000666				

October, 1939

1	.5	.0025				.001	.2	.00190				.001
2	.3	.0015				.002	.2	.00190				.001
3	.3	.0015				.001	.2	.00190				.001
4	.3	.0015				.001	.2	.00190				.001
5	.3	.0015				.002	.2	.00190				.001
6	.3	.0015				.002	.1	.000952				0
7	.3	.0015				.001	.2	.00190				0
8	.7	.0035				.002	.2	.00190				.001
9	3.1	.0155				.08	3.1	.0295				.2
10	2.9	.0145				.05	1.1	.0105				.01
11	1.7	.0085				.009	.5	.00476				.003
12	1.0	.005				.003	.3	.00286				.001
13	.8	.004				.004	.2	.00190				.001
14	.6	.003				.002	.1	.000952				0
15	.6	.003				.003	.2	.00190				.001
16	.6	.003				.002	.2	.00190				.001
17	.6	.003				.003	.2	.00190				.001
18	.6	.003				.002	.2	.00190				.001
19	.4	.002				.002	.2	.00190				.002
20	.4	.002				.001	.2	.00190				.001
21	.3	.0015				.002	.2	.00190				.001
22	.4	.002				.002	.2	.00190				.001
23	.4	.002				.02	.3	.00286				.001
24	.4	.002				.002	.3	.00286				.001
25	.5	.0025				.003	.3	.00286				0
26	.5	.0025				.001	.3	.00286				.001
27	.5	.0025				.003	.3	.00286				.001
28	.4	.002				.001	.3	.00286				0
29	.6	.003				.002	.3	.00286				.001
30	.3	.0015				.001	.3	.00286				.001
31	.4	.002				.001	.3	.00286				.001
Total						.011						.227
Mean	.68	[illegible]					[illegible]	[illegible]				
Max.	[illegible]	[illegible]					[illegible]	[illegible]				
Min.	[illegible]	[illegible]					[illegible]	[illegible]				

* See note on [illegible]

November, 1939

Date	*Tarkio River (200 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day	*West Tarkio Creek (105 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day
1	.3	.0015				.001	.3	.00286				.001
2	.4	.002				.001	.2	.00190				.001
3	.4	.002				.001	.4	.00380				.001
4	.4	.002				.001	.3	.00286				0
5	.5	.0025				.001	.4	.00380				.002
6	.5	.0025				.001	.4	.00380				.005
7	.6	.003				.002	.4	.00380				.002
8	.6	.003				.002	.4	.00380				.001
9	.7	.0035				.006	.4	.00380				.003
10	.7	.0035				.004	.6	.00571				.002
11	.6	.003				.003	.5	.00476				.002
12	.6	.003				.002	.4	.00380				0
13	.6	.003				.001	.4	.00380				0
14	.6	.003				.002	.4	.00380				.001
15	.6	.003				.002	.3	.00286				0
16	.6	.003				.002	.3	.00286				0
17	.6	.003				.002	.4	.00380				.001
18	.6	.003				.002	.4	.00380				0
19	.6	.003				.002	.5	.00476				0
20	.6	.003				.001	.4	.00380				.001
21	.5	.0025				.001	.2	.00190				0
22	.5	.0025				.001	.4	.00380				0
23	.6	.003				.002	.4	.00380				.001
24	.6	.003				.002	.5	.00476				0
25	.6	.003				.003	.5	.00476				0
26	.6	.003				.002	.5	.00476				.001
27	.4	.002				.001	.5	.00476				.001
28	.5	.0025				.001	.5	.00476				.001
29	.7	.0035				.002	.5	.00476				.004
30	.7	.0035				.002	1.1	.0105				.01
Total						.056						.041
Mean	.56	.0028					.43	.00409				
Max.	.7	.0035					1.1	.0105				
Min.	.3	.0015					.2	.00190				

December, 1939

1	1.4	.007				.008	1.9	.0181				.03
2	1.4	.007				.004	.9	.00856				.002
3	.9	.0045				.001	.7	.00666				.001
4	.8	.004				.002	.7	.00666				.002
5	.7	.0035				.001	.6	.00571				.002
6	.6	.003				.001	.6	.00571				.001
7	.7	.0035				.002	.6	.00571				.002
8	.6	.003				0	.6	.00571				.002
9	.6	.003				0	.6	.00571				.002
10	.6	.003				.002	.5	.00476				.001
11	.6	.003				0	.4	.00380				.001
12	.6	.003				.002	.4	.00380				.001
13	.6	.003				.002	.4	.00380				.001
14	.6	.003				.002	.2	.00190				.001
15	.6	.003				.002	.4	.00380				.002
16	.6	.003				.001	.5	.00476				.001
17	.6	.003				.002	.5	.00476				.001
18	.6	.003				.001	.5	.00476				.001
19	.6	.003				.01	.5	.00476				.01
20	.4	.002				.002	.4	.00380				.02
21	.3	.0015				.001	.4	.00380				.02
22	.2	.001				.001	.3	.00286				.01
23	.2	.001				0	.3	.00286				.007
24	.3	.0015				0	.4	.00380				.006
25	.3	.0015				0	.5	.00476				.004
26	.2	.001				.001	.6	.00571				.01
27	.3	.0015				0	.7	.00666				.02
28	.3	.0015				0	.6	.00571				.003
29	.3	.0015				.03	.5	.00476				0
30	.3	.0015				.001	.4	.00380				.001
31	.3	.0015				0	.2	.00190				.02
Total						.079						.236
Mean	.55	.00275					.54	[illegible]				
Max.	1.4	[illegible]					[illegible]	[illegible]				
Min.	.2	[illegible]					[illegible]	[illegible]				

* See note on Sheet 7

STREAM DISCHARGE AND SUSPENDED MATTER

NOTE:

The artificial controls on both West Tarkio Creek and Tarkio River were washed out in March 1939, and were not replaced. After the March flood the lowest intake pipes to the gage wells were above the water surface in the streams for all ordinary stages, and the discharges for practically the entire period of record between March 1939 and June 1940 are based on readings of wire-weight gages by resident observers and frequent discharge measurements made by the resident engineer. The peak discharges reported for different periods, therefore, are usually based on high-water marks or wire-weight readings and may not always represent the actual peaks reached by the streams.

January, 1940

Date	* Tarkio River (200 sq.mi.) Mean Daily Discharge C.F.S.	Mean Daily Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	Maximum Rate of Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge Time	Suspended Matter Tons Per Day	* West Tarkio Creek (105 sq.mi.) Mean Daily Discharge C.F.S.	Mean Daily Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	Maximum Rate of Discharge C.F.S. per sq.mi.	Maximum Rate of Discharge Time	Suspended Matter Tons Per Day
1	.3	.0015				.006	.2	.00190				.1
2	.2	.001				.008	.2	.00190				.05
3	.2	.001				.005	.1	.000952				.003
4	.1	.0005				.004	.1	.000952				.02
5	.1	.0005				.002	.1	.000952				.03
6	.1	.0005				.03	.1	.000952				.02
7	.1	.0005				.01	.1	.000952				.01
8	.1	.0005				.02	.1	.000952				.02
9	.1	.0005				.007	.1	.000952				.07
10	.1	.0005				.01	.2	.00190				.05
11	.1	.0005				.006	.4	.00381				.05
12	.1	.0005				.02	.6	.00571				.06
13	.1	.0005				.002	.7	.00666				.05
14	.1	.0005				.002	.7	.00666				.09
15	.1	.0005				.003	.8	.00761				.1
16	.1	.0005				.002	.7	.00666				.1
17	.1	.0005				.002	.7	.00666				.09
18	.1	.0005				.003	.6	.00571				.08
19	.3	.0015				.01	.3	.00286				.04
20	.4	.002				.006	.2	.00190				.03
21	.4	.002				.005	.2	.00190				.07
22	.3	.0015				.005	.1	.000952				.01
23	.2	.001				.005	.1	.000952				.01
24	.2	.001				.003	.1	.000952				.007
25	.1	.0005				.002	.2	.00190				.01
26	.1	.0005				.002	.3	.00286				.006
27	.2	.001				.002	.4	.00381				.02
28	.5	.0025				.008	.9	.00856				.05
29	.5	.0025				.009	1.0	.00952				.4
30	.4	.002				.008	1.0	.00952				.4
31	.4	.002				.008	.9	.00856				.06
Total						.215						2.106
Mean	.20	.0010					.39	.00372				
Max.	.5	.0025					1.0	.00952				
Min.	.1	.0005					.1	.000952				

February, 1940

1	.4	.002				.005	.8	.00761				.01
2	.5	.0025				.007	.6	.0571				.01
3	.5	.0025				.008	1.0	.00952				.003
4	.6	.003				.006	1.0	.00952				.003
5	.5	.0025				.008	1.7	.0162				.005
6	.6	.003				.005	1.6	.0152				.004
7	.6	.003				.01	1.3	.0124				.05
8	.5	.0025				.01	1.0	.00952				.03
9	.5	.0025				.01	1.0	.00952				.04
10	.5	.0025				.01	1.0	.00952				.05
11	.6	.003				.01	1.0	.00952				.06
12	.6	.003				.01	1.0	.00952				.03
13	.7	.0035				.02	1.6	.0152				.03
14	.8	.004				.02	2.1	.0200				.1
15	.9	.0045				.02	2.6	.0248				.2
16	1.3	.0065				.06	2.6	.0248				.2
17	1.3	.0065				.04	2.6	.0248				.1
18	1.3	.0065				.05	2.6	.0248				.1
19	5.	.025				.2	2.6	.0248				.2
20	5.	.025				.3	2.3	.0219				.3
21	4.2	.021				.2	1.3	.0124				.3
22	2.8	.014				.2	.9	.00856				.4
23	2.1	.0105				.1	.6	.00571				.1
24	2.2	.011				.09	.4	.00381				.05
25	2.3	.0115				.1	.3	.00286				.08
26	3.2	.016				.09	.9	.00856				.2
27	3.4	.017				.08	1.1	.0105				.2
28	3.6	.018				.2	1.1	.0105				.2
29	3.8	.019				.2	1.1	.0105				.2
Total						2.069						3.255
Mean	1.73	[illegible]					1.27	[illegible]				
Max.	5.	[illegible]					2.6	[illegible]				
Min.	.4	[illegible]					.3	.00286				

* See note on Sh[illegible]

March, 1940

Date	* Tarkio River (200 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day	* West Tarkio Creek (105 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day
1	4.8	.024				.4	2.1	.0200				.6
2	13.	.065				15.	7.	.0666				13.
3	16.	.08				14.	9.	.0856				9.5
4	22.	.11				21.	9.	.0856				8.9
5	18.	.09				16.	10.	.0952				14.
6	37.	.185	38.	.19	9:30A	126.	13.	.124				37.
7	16.	.08				39.	13.	.124				57.
8	31.	.155	32.	.16	1:55P	87.	17.	.162				87.
9	16.	.08				31.	17.	.162				79.
10	12.	.06				16.	15.	.143				85.
11	4.8	.024				4.2	14.	.133				37.
12	3.8	.019				1.5	12.	.114				32.
13	7.	.035				1.0	9.	.0856				25.
14	19.	.095	19.	.095	10:20A	14.	9.	.0856				18.
15	16.	.08				21.	6.	.0571				16.
16	14.	.07				28.	13.	.124				75.
17	61.	.305				624.	19.	.181				152.
18	95.	.475	161.	.805	8:15A	4,020.	22.	.210				183.
19	51.	.255				455.	19.	.181				122.
20	30.	.15				91.	13.	.124				38.
21	9.	.045				17.	10.	.0952				15.
22	12.	.06				9.2	6.	.0571				4.1
23	8.	.04				2.9	4.8	.0457				2.0
24	6.	.03				1.1	6.	.0571				2.9
25	9.	.045				5.7	3.5	.0333				2.1
26	8.	.04				3.8	3.5	.0333				1.7
27	9.	.045				5.7	3.3	.0314				1.7
28	12.	.06				8.6	6.	.0571				5.1
29	15.	.075				19.	4.8	.0457				2.4
30	9.	.045				6.2	4.6	.0438				1.3
31	6.	.035				2.2	3.8	.0362				.7
Total						5,706.5						1,128.0
Mean	19.0	.095					9.82	.0935				
Max.	95.	.475					22.	.210				
Min.	3.8	.019					2.1	.0200				

April, 1940

1	4.7	.0235				.5	3.8	.0362				.4
2	4.0	.020				.5	3.3	.0314				.2
3	3.3	.0165				.2	1.9	.0181				.09
4	2.6	.013				.2	1.7	.0162				.06
5	2.1	.0105				.09	1.6	.0152				.08
6	1.8	.009				.05	1.6	.0152				2.6
7	8.	.04				3.1	5.	.0476				2.4
8	16.	.08				6.9	4.6	.0438				1.2
9	11.	.055				1.9	4.3	.0410				.5
10	7.	.035				.6	4.6	.0438				.5
11	6.	.03				.7	2.9	.0276				.4
12	4.2	.021				.3	1.4	.0133				.1
13	3.8	.019				.1	1.9	.0181				.1
14	4.2	.021				.1	1.9	.0181				.08
15	4.7	.0235				.3	2.1	.0200				.06
16	5.	.025				.09	1.7	.0162				.1
17	6.	.03				.3	4.6	.0438				1.8
18	7.	.035				.3	2.6	.0248				.1
19	5.	.025				.2	2.1	.0200				.06
20	3.6	.018				.09	2.1	.0200				.08
21	2.9	.0145				.06	2.1	.0200				.06
22	3.1	.0155				.05	2.6	.0248				.3
23	8.	.04				1.0	4.6	.0438				1.7
24	10.	.05				.7	2.9	.0276				.1
25	8.	.04				.4	4.3	.0410				1.1
26	62.	.31	104.	.52	9:00A	1,490.	12.	.114	20.	.190	5:10A	59.
27	30.	.15				223.	17.	.162	21.	.200	8:15A	89.
28	28.	.14				394.	24.	.228	63.	.600	11:00P	556.
29	106.	.53	169.	.845	6:00A	4,170.	42.	.400	61.	.580	8:00P	882.
30	42.	.21				358.	36.	.343				582.
Total						6,653.73						2,132.17
Mean	13.7	.0635					6.77	.0645				
Max.	1[illegible]6.	.53					[illegible]	[illegible]				
Min.	1.3	[illegible]					[illegible]	[illegible]				

*See note on Sheet 4

May, 1940

Date	* Tarkio River (200 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day	* West Tarkio Creek (105 sq.mi.) Mean Daily Discharge C.F.S.	C.F.S. per sq.mi.	Maximum Rate of Discharge C.F.S.	C.F.S. per sq.mi.	Time	Suspended Matter Tons Per Day
1	24.	.12				43.	18.	.171				62.
2	19.	.095				17.	12.	.114				14.
3	16.	.08				10.	9.	.0856				8.8
4	13.	.065				5.5	9.	.0856				4.8
5	12.	.06				4.8	7.	.0666				3.0
6	12.	.06				7.2	7.	.0666				4.6
7	12.	.06				2.4	7.	.0666				1.1
8	14.	.07				3.8	7.	.0666				.8
9	11.	.055				2.3	7.	.0666				.6
10	8.	.04				.5	7.	.0666				.2
11	7.	.035				.5	5.	.0476				.2
12	6.	.03				.3	4.8	.0457				.1
13	5.	.025				.1	3.8	.0362				.1
14	4.7	.0235				.06	3.1	.0295				.08
15	3.3	.0165				.06	3.5	.0333				.1
16	4.7	.0235				.2	2.9	.0276				.08
17	4.7	.0235				.05	3.3	.0314				.1
18	13.	.065				6.7	11.	.105	24.	.228	6:00P	56.
19	30.	.15	69.	.345	12:30A	39.	8.	.0761				3.7
20	11.	.055				4.8	28.	.266	305.	2.90	8:30P	825.
21	17.	.085	45.	.225	9:00A	146.	9.	.0856				39.
22	10.	.05				32.	9.	.0856				27.
23	5.	.025				3.3	3.8	.0362				27.
24	4.2	.021				2.0	2.9	.0276				8.8
25	3.3	.0165				1.1	2.4	.0228				2.8
26	3.1	.0155				.7	2.3	.0219				.9
27	2.6	.013				.5	2.3	.0219				.5
28	2.6	.013				.3	2.3	.0219				.4
29	2.6	.013				.4	2.1	.0200				.2
30	2.2	.011				.4	2.1	.0200				.4
31	2.5	.0125				.6	1.7	.0162				.2
Total						335.57						1,092.56
Mean	9.21	.04105					6.56	.0624				
Max.	30.	.15					28.	.266				
Min.	2.2	.011					1.7	.0162				

June, 1940

1	2.2	.011				.7	1.0	.00952				.1
2	2.2	.011				.7	.5	.00476				.08
3	2.2	.011				.8	.5	.00476				.1
4	43.	.215	100.	.50	6:40P	1,500.	3.8	.0362	17.	.162	11:00A	80.
5	24.	.12				375.	2.9	.0276				4.6
6	5.	.025				22.	2.6	.0248				1.9
7	2.4	.012				4.0	3.1	.0295				4.7
8	1.8	.009				1.7	1.7	.0162				.5
9	1.8	.009				.8	.9	.00856				.2
10	1.8	.009				.7	.9	.00856				.1
11	1.9	.0095				.2	2.1	.0200				.4
12	4.0	.02				.9	3.3	.0314				1.3
13	6.	.03				1.3	2.1	.0200				.5
14	3.8	.019				.5	1.7	.0162				.2
15	2.6	.013				.3	1.6	.0152				.2
16	1.8	.009				.2	.9	.00856				.06
17	1.1	.0055				.09	.6	.00571				.05
18	.8	.004				.1	.3	.00286				.03
19	.6	.003				.1	.2	.00190				.02
20	1.2	.006				.3	1.7	.0162				.9
21	1.0	.005				.1	1.1	.0105				.4
22	.8	.004				.2	.8	.00761				.08
23	24.	.12	79.	.395	5:30P	632.	1.7	.0162				.5
24	19.	.095				266.	4.3	.0410	15.	.143	3:20P	20.
25	5.	.025				17.	15.	.143				49.
26	2.2	.011				4.0	3.3	.0362				9.6
27	1.2	.006				.9	2.	.0190				4.9
28	39.	.195	111.	.555	10:00A	2,120.	1.1	.0105				1.4
29	6.	.03				136.	3.3	.0314				5.0
30	1.9	.0095				9.0	2.9	.0276				9.2
Total						5,095.59						194.24
Mean	7.01	.03505					2.28	.0217				
Max.	43.	.215					15.	.143				
Min.	.6	.003					.2	.00190				

* See note on sheet 1

STREAM DISCHARGE AND SUSPENDED MATTER

NOTE:

The artificial controls on both West Tarkio Creek and Tarkio River were washed out in March 1939, and were not replaced. After the March flood the lowest intake pipes to the gage wells were above the water surface in the streams for all ordinary stages, and the discharges for practically the entire period of record between March 1939 and June 1940 are based on readings of wire-weight gages by resident observers and frequent discharge measurements made by the resident engineer. The peak discharges reported for different periods, therefore, are usually based on high-water marks or wire-weight readings and may not always represent the actual peaks reached by the streams.

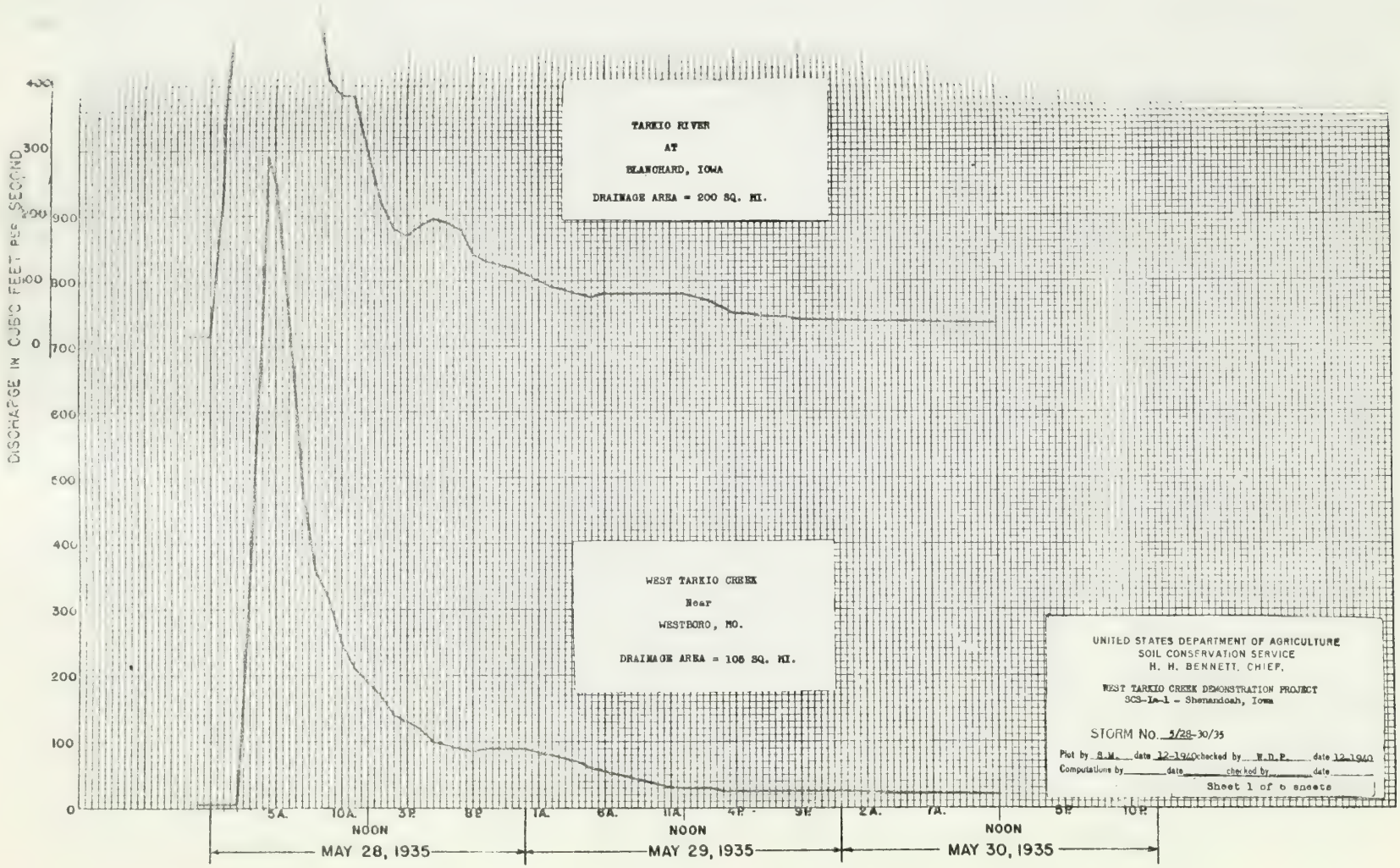
COMPARATIVE DISCHARGE HYDROGRAPHS

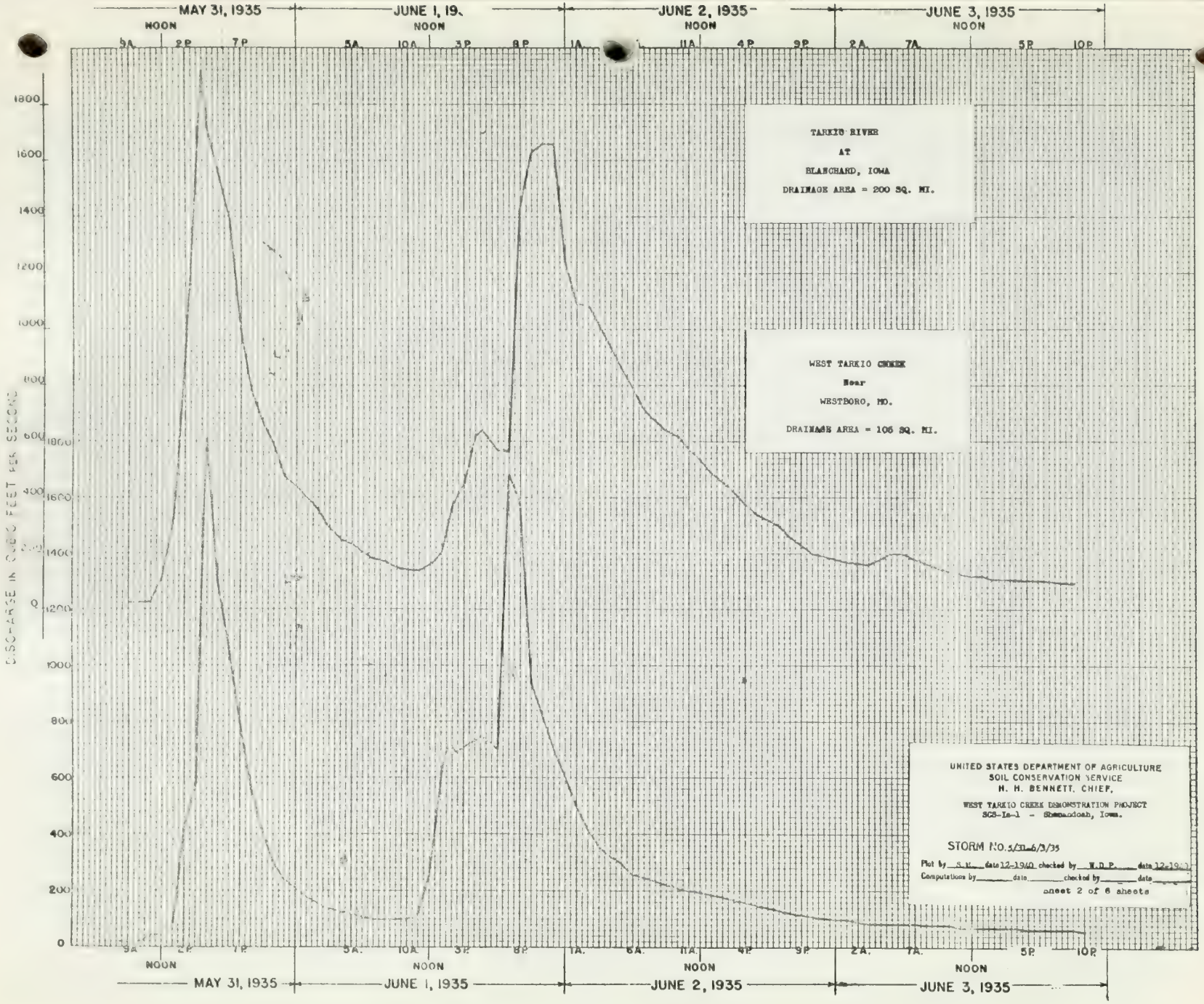
OF

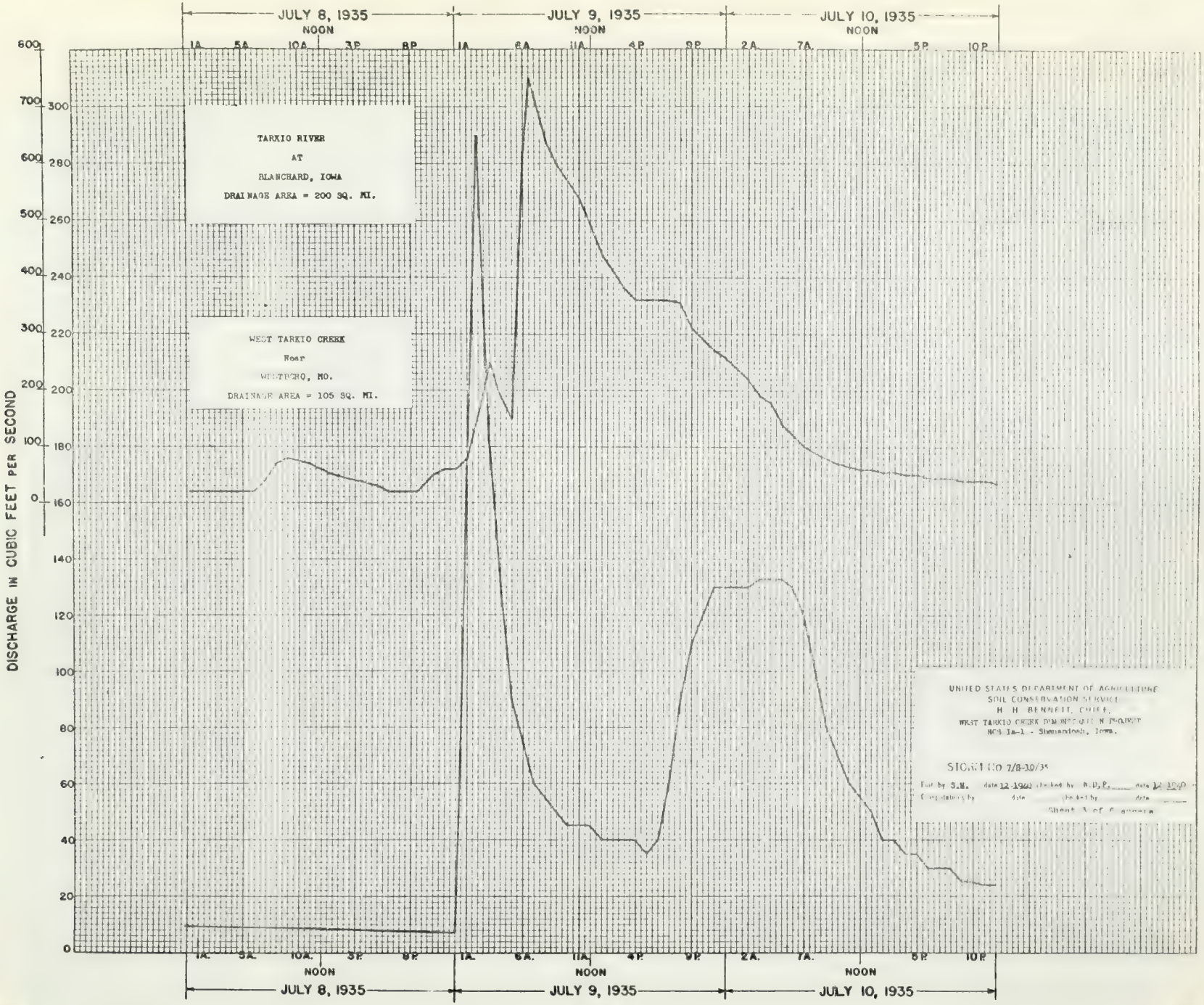
TARKIO RIVER

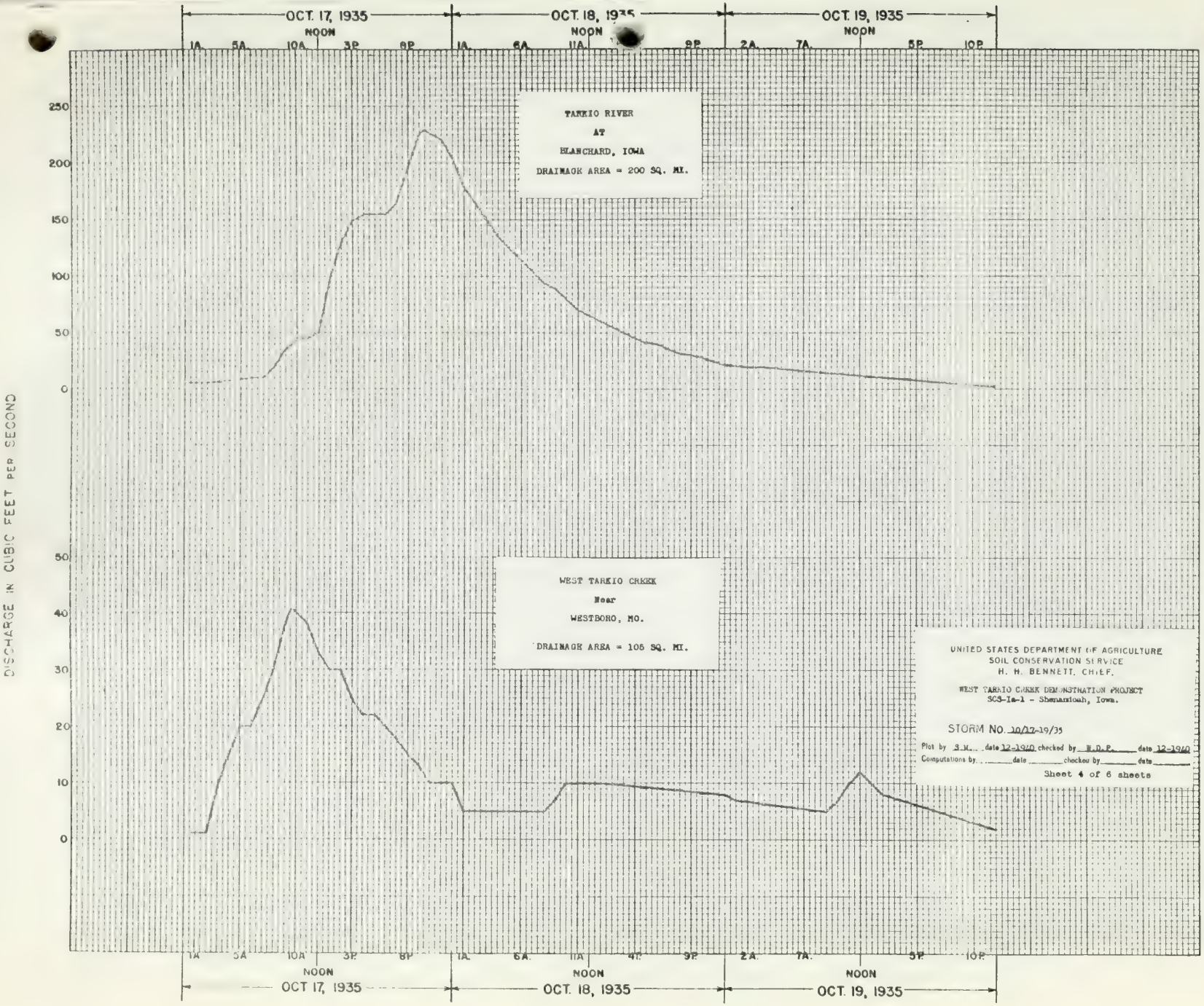
AND WEST TARKIO CREEK

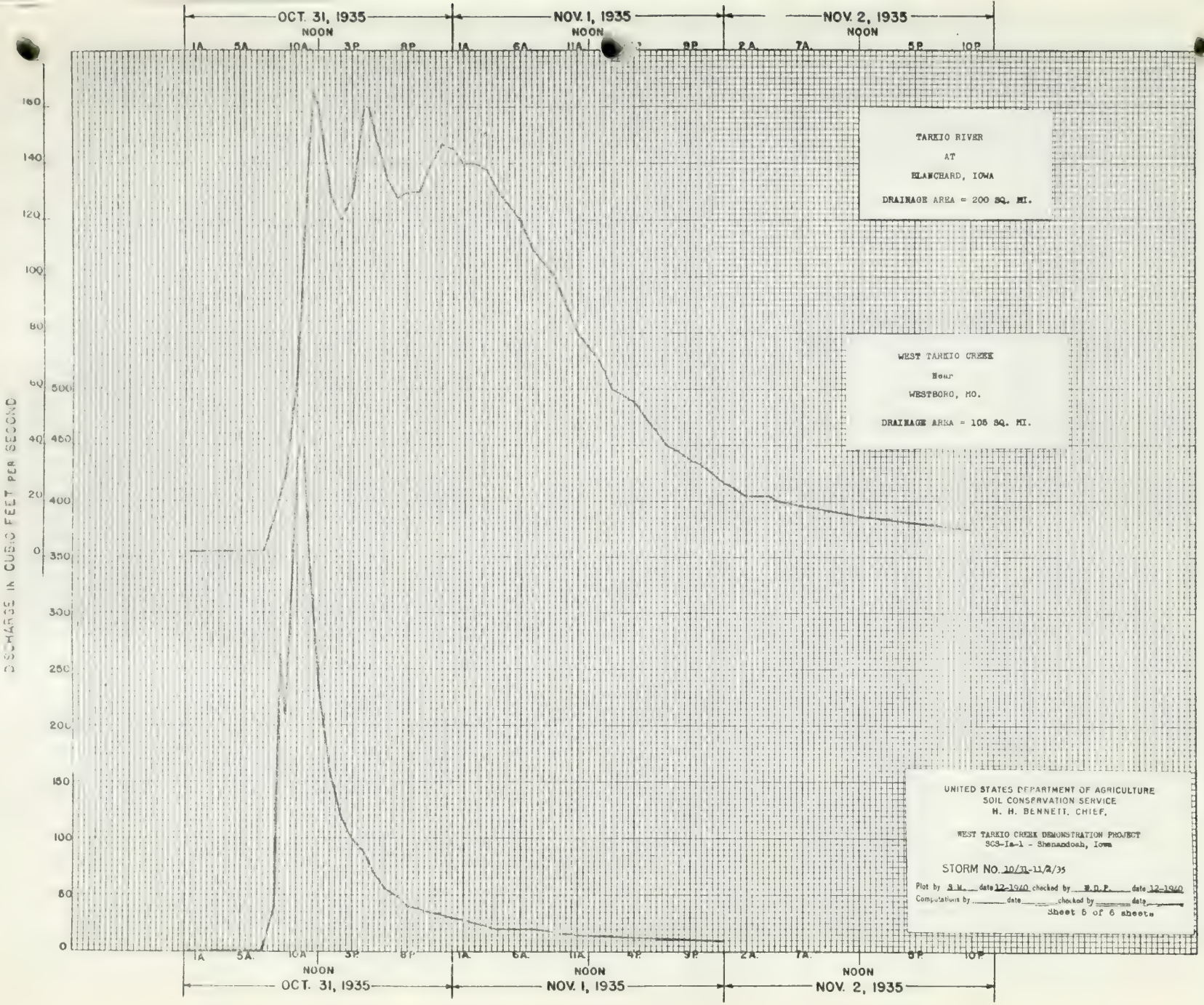
1935 to 1940

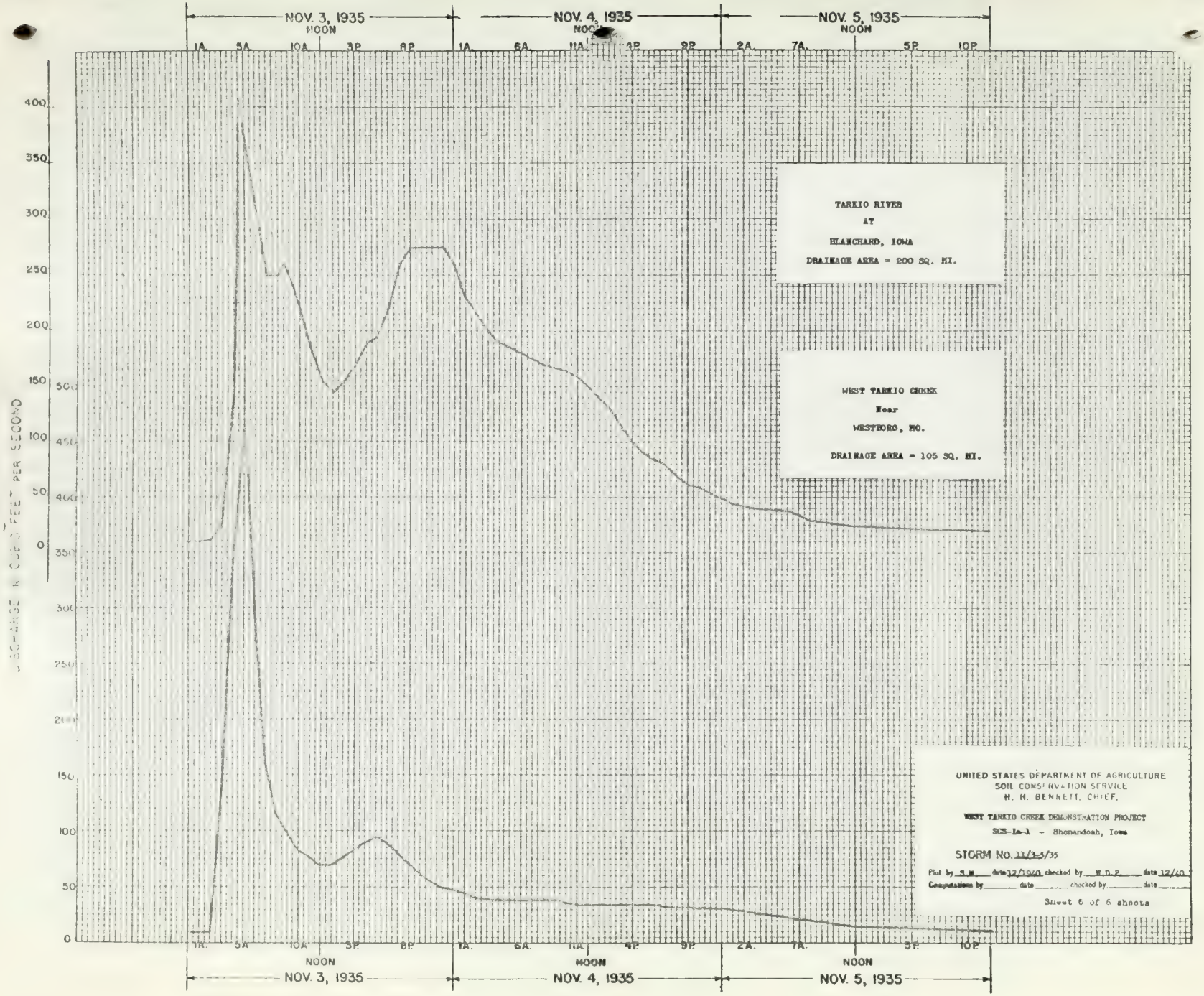

TARKIO RIVER
AT
BLANCHARD, IOWA
DRAINAGE AREA = 200 SQ. MI.
WEST TARKIO CREEK
Near
WESTBORO, MO.
DRAINAGE AREA = 105 SQ. MI.
DISCHARGE IN CUBIC FEET PER SECOND
400
300
200
100
0
900
800
700
600
500
400
300
200
100
0
5A.
10A.
3P.
8P.
1A.
6A.
11A.
4P.
9P.
2A.
7A.
5P.
10P.
NOON
NOON
NOON
MAY 28, 1935
MAY 29, 1935
MAY 30, 1935
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF,
WEST TARKIO CREEK DEMONSTRATION PROJECT
SCS-Ia-1 - Shenandoah, Iowa
STORM No. 5/28-30/35
Plot by S.M. date 12-1940 checked by W.D.P. date 12-1940
Computations by date checked by date
Sheet 1 of 6 sheets

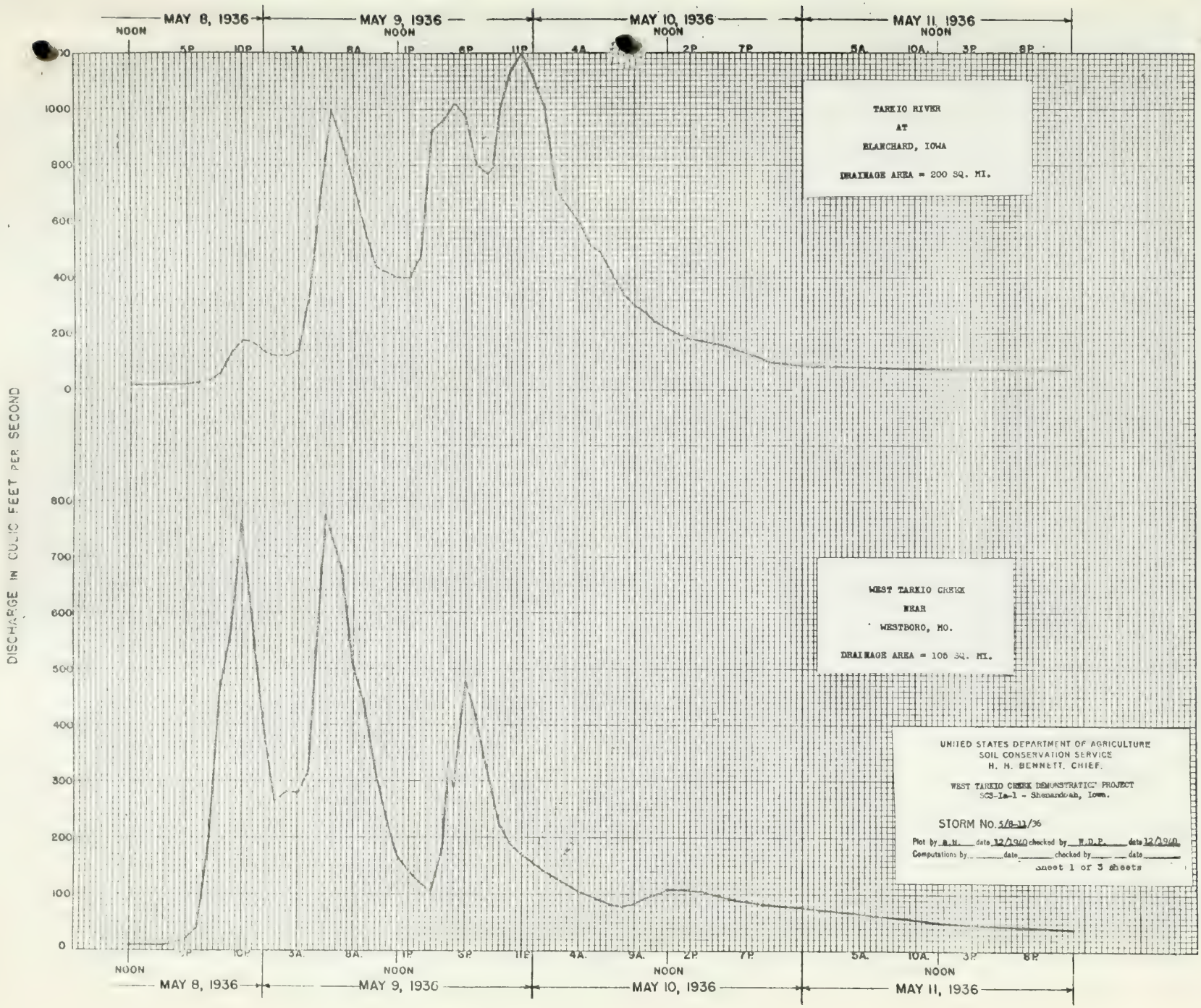

MAY 31, 1935
JUNE 1, 19.
JUNE 2, 1935
JUNE 3, 1935
NOON
9A. 2P. 7P. 5A. 10A. 3P. 8P. 1A. 6A. 11A. 4P. 9P. 2A. 7A. 5P. 10P.
DISCHARGE IN CUBIC FEET PER SECOND
1800 1600 1400 1200 1000 800 600 400 200 0
TARKIO RIVER
AT
BLANCHARD, IOWA
DRAINAGE AREA = 200 SQ. MI.
WEST TARKIO CREEK
Near
WESTBORO, MO.
DRAINAGE AREA = 106 SQ. MI.
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF,
WEST TARKIO CREEK DEMONSTRATION PROJECT
SCS-Ia-1 - Shenandoah, Iowa.
STORM NO. 5/31-6/3/35
Plot by S.H. date 12-1940 checked by W.D.P. date 12-1940
Computations by date checked by date
sheet 2 of 6 sheets

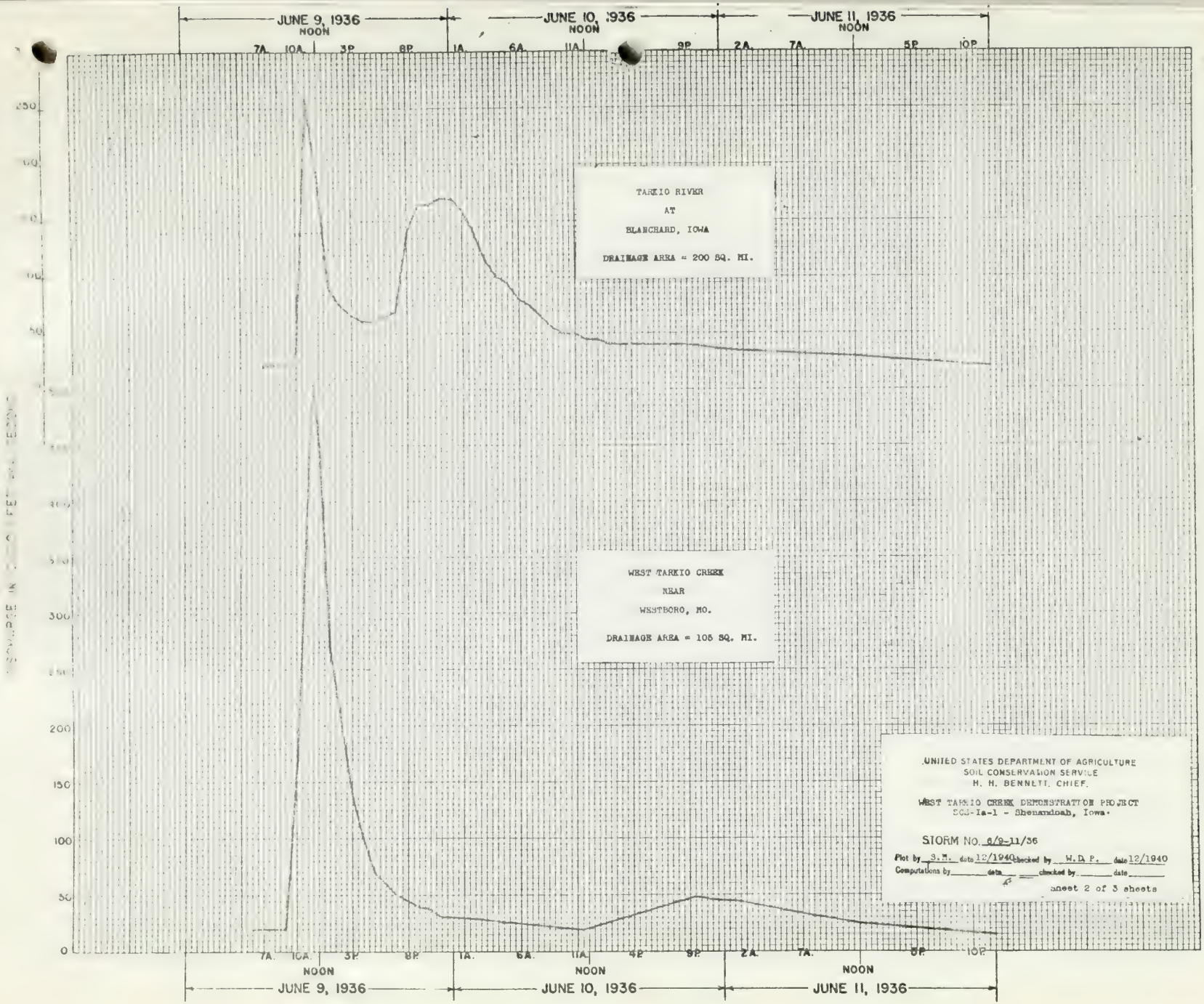

JULY 8, 1935
JULY 9, 1935
JULY 10, 1935
NOON
1A 5A 10A 3P 8P
1A 6A 11A 4P 9P
2A 7A 5P 10P
DISCHARGE IN CUBIC FEET PER SECOND
TARKIO RIVER
AT
BLANCHARD, IOWA
DRAINAGE AREA = 200 SQ. MI.
WEST TARKIO CREEK
Near
WESTBORO, MO.
DRAINAGE AREA = 105 SQ. MI.
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.
WEST TARKIO CREEK DEMONSTRATION PROJECT
NCS Ia-1 - Shenandoah, Iowa.
STORM NO 7/8-10/35

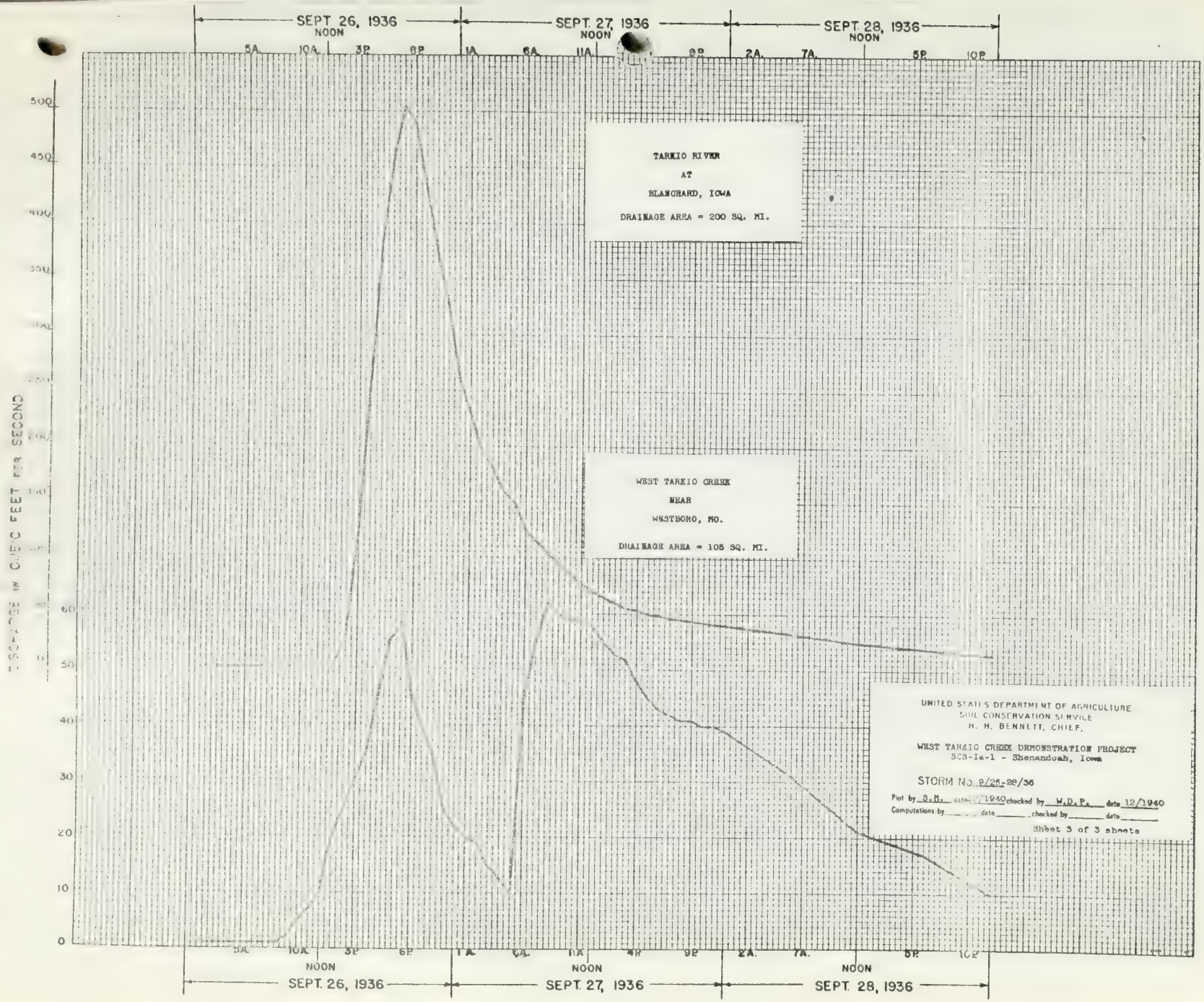

OCT. 17, 1935
OCT. 18, 1935
OCT. 19, 1935
NOON
1A. 5A. 10A. 3P. 8P.
1A. 6A. 11A. 4P. 9P.
2A. 7A. 5P. 10P.
DISCHARGE IN CUBIC FEET PER SECOND
250
200
150
100
50
0
50
40
30
20
10
0
TARKIO RIVER
AT
BLANCHARD, IOWA
DRAINAGE AREA = 200 SQ. MI.
WEST TARKIO CREEK
Near
WESTBORO, MO.
DRAINAGE AREA = 105 SQ. MI.
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.
WEST TARKIO CREEK DEMONSTRATION PROJECT
SCS-Ia-1 - Shenandoah, Iowa.
STORM NO. 10/17-19/35
Plot by S.M. date 12-1940 checked by W.D.P. date 12-1940
Computations by ____ date ____ checked by ____ date ____
Sheet 4 of 6 sheets

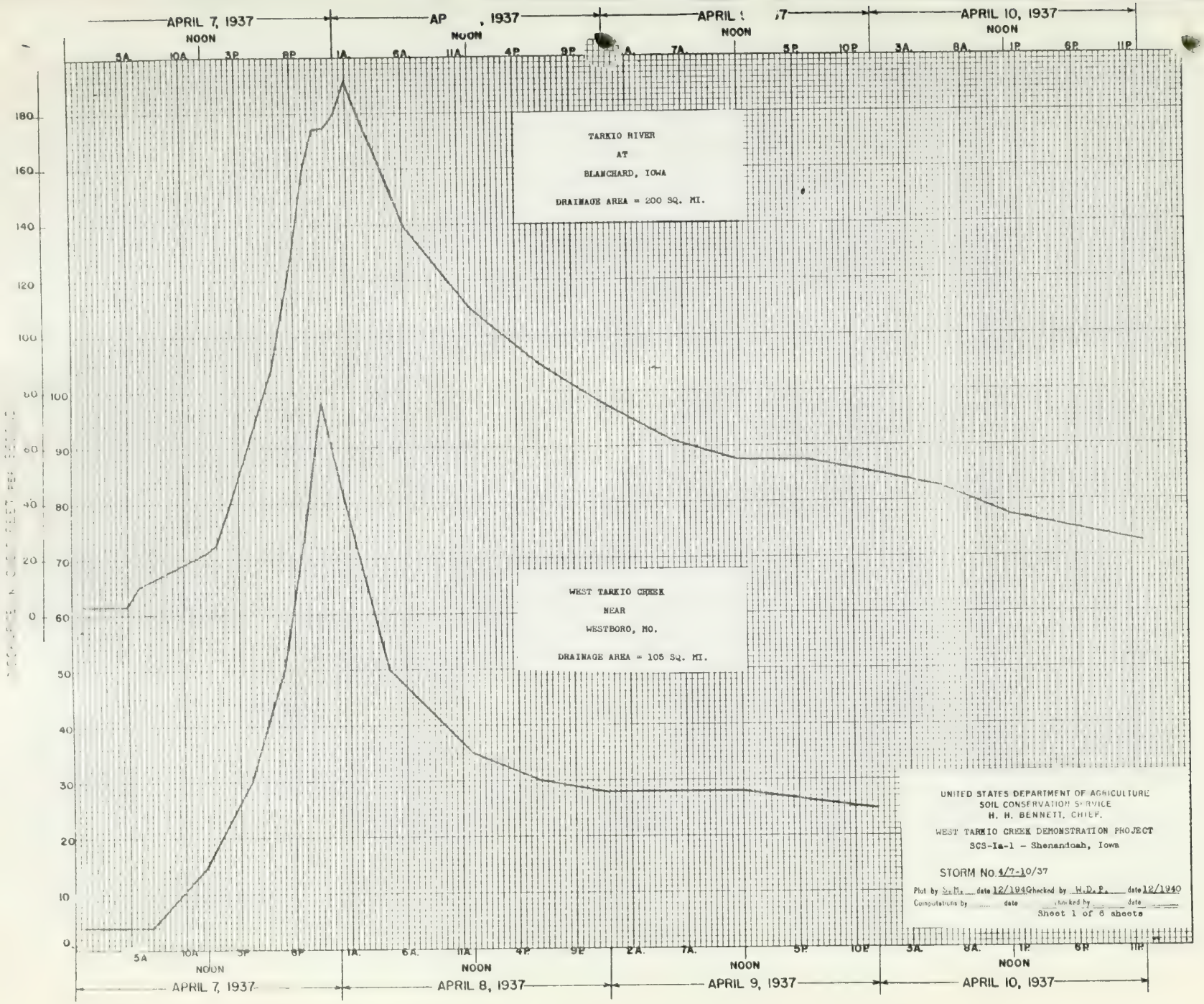

OCT. 31, 1935
NOON
NOV. 1, 1935
NOON
NOV. 2, 1935
NOON
1A. 5A. 10A. 3P. 8P. 1A. 6A. 11A. 4P. 9P. 2A. 7A. 5P. 10P.
DISCHARGE IN CUBIC FEET PER SECOND
160
140
120
100
80
60
40
20
0
500
450
400
350
300
250
200
150
100
50
0
TARKIO RIVER
AT
BLANCHARD, IOWA
DRAINAGE AREA = 200 SQ. MI.
WEST TARKIO CREEK
Near
WESTBORO, MO.
DRAINAGE AREA = 105 SQ. MI.
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF,
WEST TARKIO CREEK DEMONSTRATION PROJECT
SCS-Ia-1 - Shenandoah, Iowa
STORM NO. 10/31-11/2/35
Plot by S.M. date 12-1940 checked by W.D.P. date 12-1940
Computations by date checked by date
Sheet 5 of 6 sheets

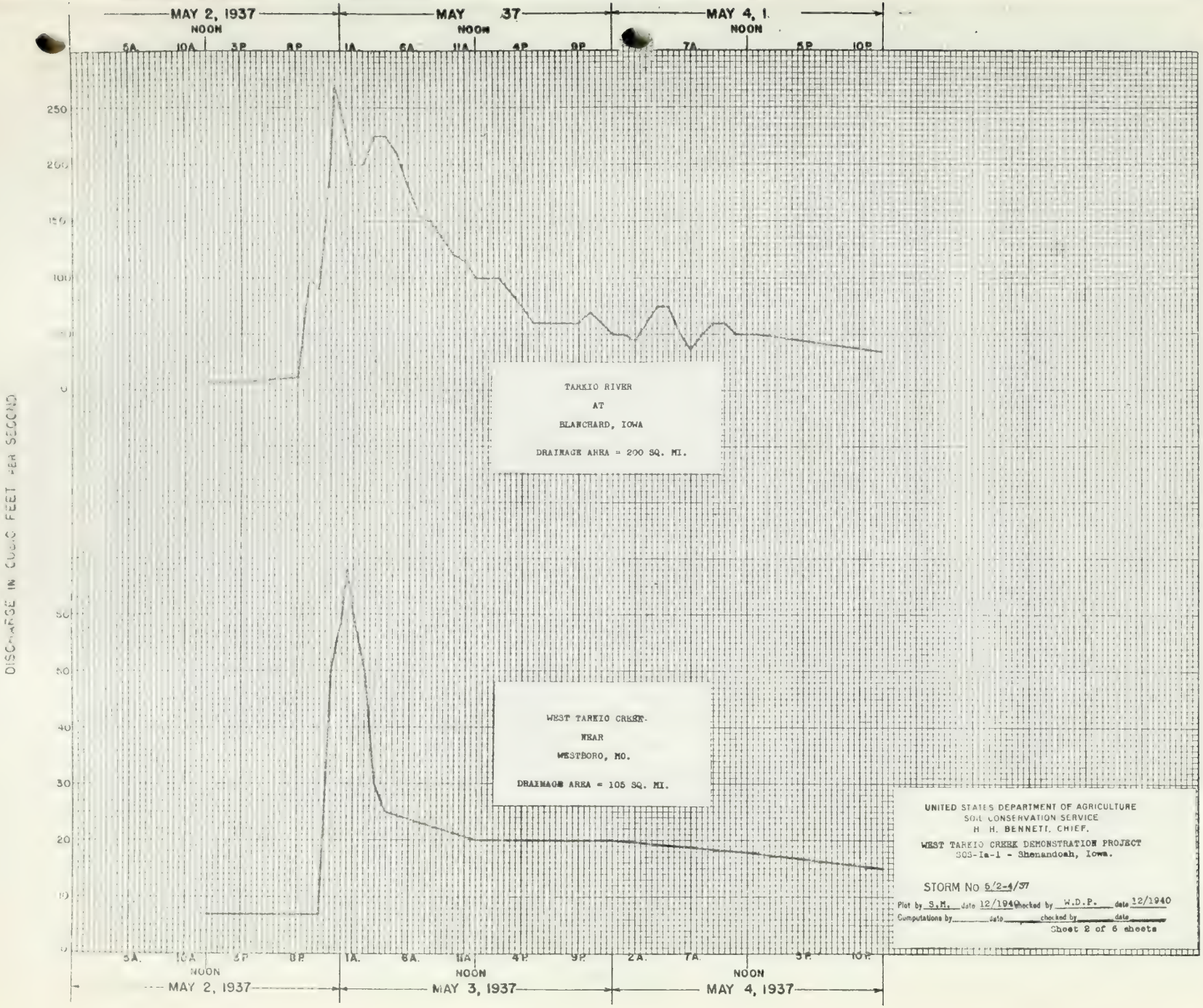

NOV. 3, 1935
NOON
NOV. 4, 1935
NOON
NOV. 5, 1935
NOON
1A. 5A. 10A. 3P. 8P. 1A. 6A. 11A. 4P. 9P. 2A. 7A. 5P. 10P.
DISCHARGE IN CUBIC FEET PER SECOND
400 350 300 250 200 150 100 50 0
500 450 400 350 300 250 200 150 100 50 0
TARKIO RIVER
AT
BLANCHARD, IOWA
DRAINAGE AREA = 200 SQ. MI.
WEST TARKIO CREEK
Near
WESTBORO, MO.
DRAINAGE AREA = 105 SQ. MI.
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.
WEST TARKIO CREEK DEMONSTRATION PROJECT
SCS-Ia-1 - Shenandoah, Iowa
STORM NO. 11/3-5/35
Plot by S.M. date 12/1940 checked by W.O.P. date 12/40
Computations by date checked by date
Sheet 6 of 6 sheets

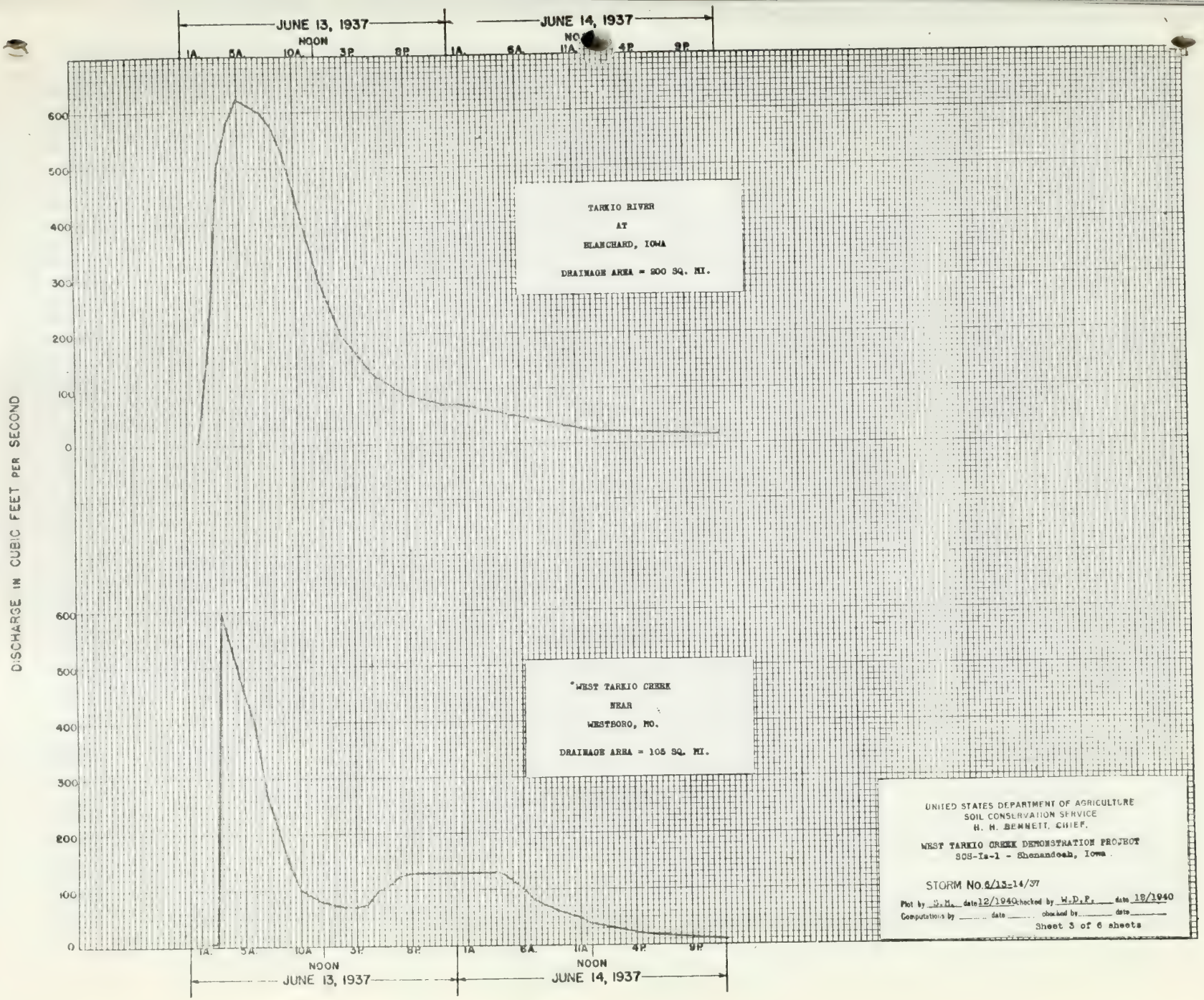

MAY 8, 1936
MAY 9, 1936
MAY 10, 1936
MAY 11, 1936
NOON
5P
10P
3A
8A
1P
6P
11P
4A
9A
2P
7P
5A
10A
3P
8P
DISCHARGE IN CUBIC FEET PER SECOND
1000
800
600
400
200
0
700
500
300
100
TARKIO RIVER
AT
BLANCHARD, IOWA
DRAINAGE AREA = 200 SQ. MI.
WEST TARKIO CREEK
NEAR
WESTBORO, MO.
DRAINAGE AREA = 106 SQ. MI.
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.
WEST TARKIO CREEK DEMONSTRATION PROJECT
SCS-Ia-1 - Shenandoah, Iowa.
STORM No. 5/8-11/36
Plot by B.N. date 12/9/40 checked by H.D.P. date 12/9/40
Computations by date checked by date
Sheet 1 of 3 sheets

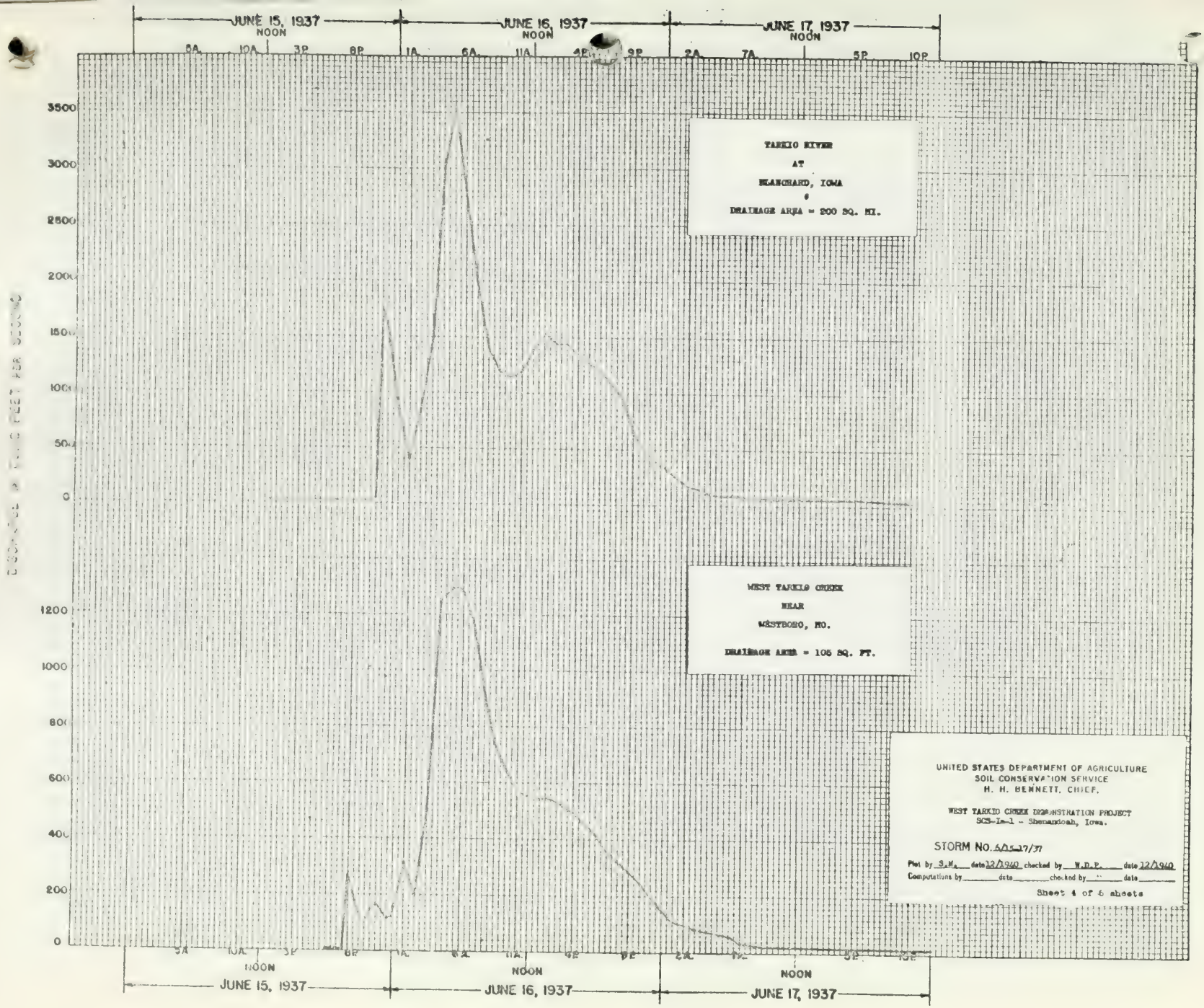

JUNE 9, 1936
NOON
JUNE 10, 1936
NOON
JUNE 11, 1936
NOON
7A. 10A. 3P. 8P. 1A. 6A. 11A. 4P. 9P. 2A. 7A. 5P. 10P.
250
200
150
100
50
300
200
150
100
50
0
TARKIO RIVER
AT
BLANCHARD, IOWA
DRAINAGE AREA = 200 SQ. MI.
WEST TARKIO CREEK
NEAR
WESTBORO, MO.
DRAINAGE AREA = 105 SQ. MI.
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.
WEST TARKIO CREEK DEMONSTRATION PROJECT
SCS-Ia-1 - Shenandoah, Iowa.
STORM No. 6/9-11/36
Plot by S.M. date 12/1940 checked by W.D.P. date 12/1940
Computations by _____ date _____ checked by _____ date _____
sheet 2 of 3 sheets

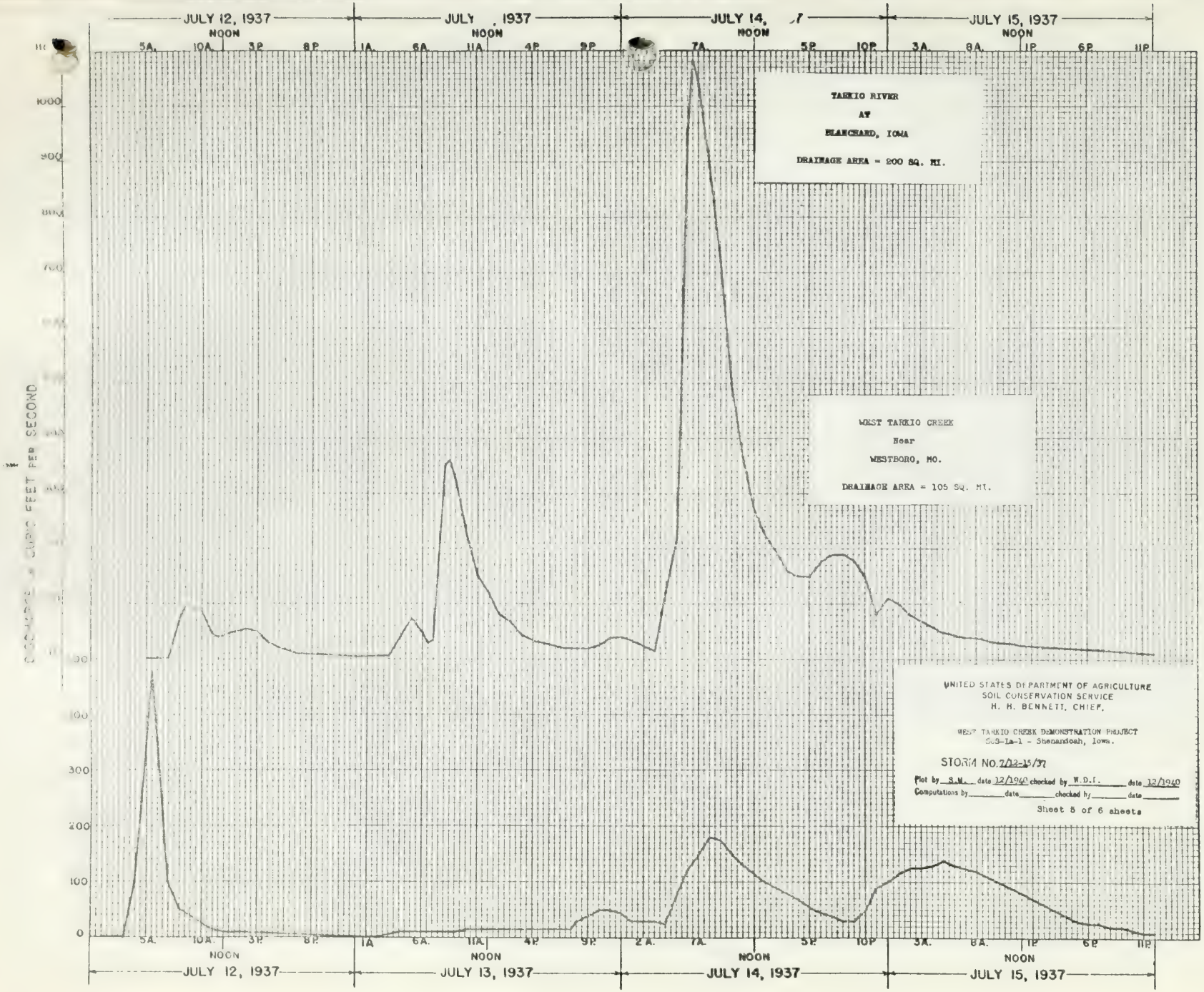

SEPT. 26, 1936
SEPT. 27, 1936
SEPT. 28, 1936
NOON
5A. 10A. 3P. 6P. 1A. 6A. 11A. 4P. 9P. 2A. 7A. 5P. 10P.
500
450
400
350
300
250
200
150
100
50
0
60
50
40
30
20
10
0
DISCHARGE IN CUBIC FEET PER SECOND
TARKIO RIVER
AT
BLANCHARD, IOWA
DRAINAGE AREA = 200 SQ. MI.
WEST TARKIO CREEK
NEAR
WESTBORO, MO.
DRAINAGE AREA = 105 SQ. MI.
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.
WEST TARKIO CREEK DEMONSTRATION PROJECT
SCS-Ia-1 - Shenandoah, Iowa
STORM NO. 9/26-28/36
Plot by S.M. date /1940 checked by W.D.P. date 12/1940
Computations by date checked by date
Sheet 3 of 3 sheets

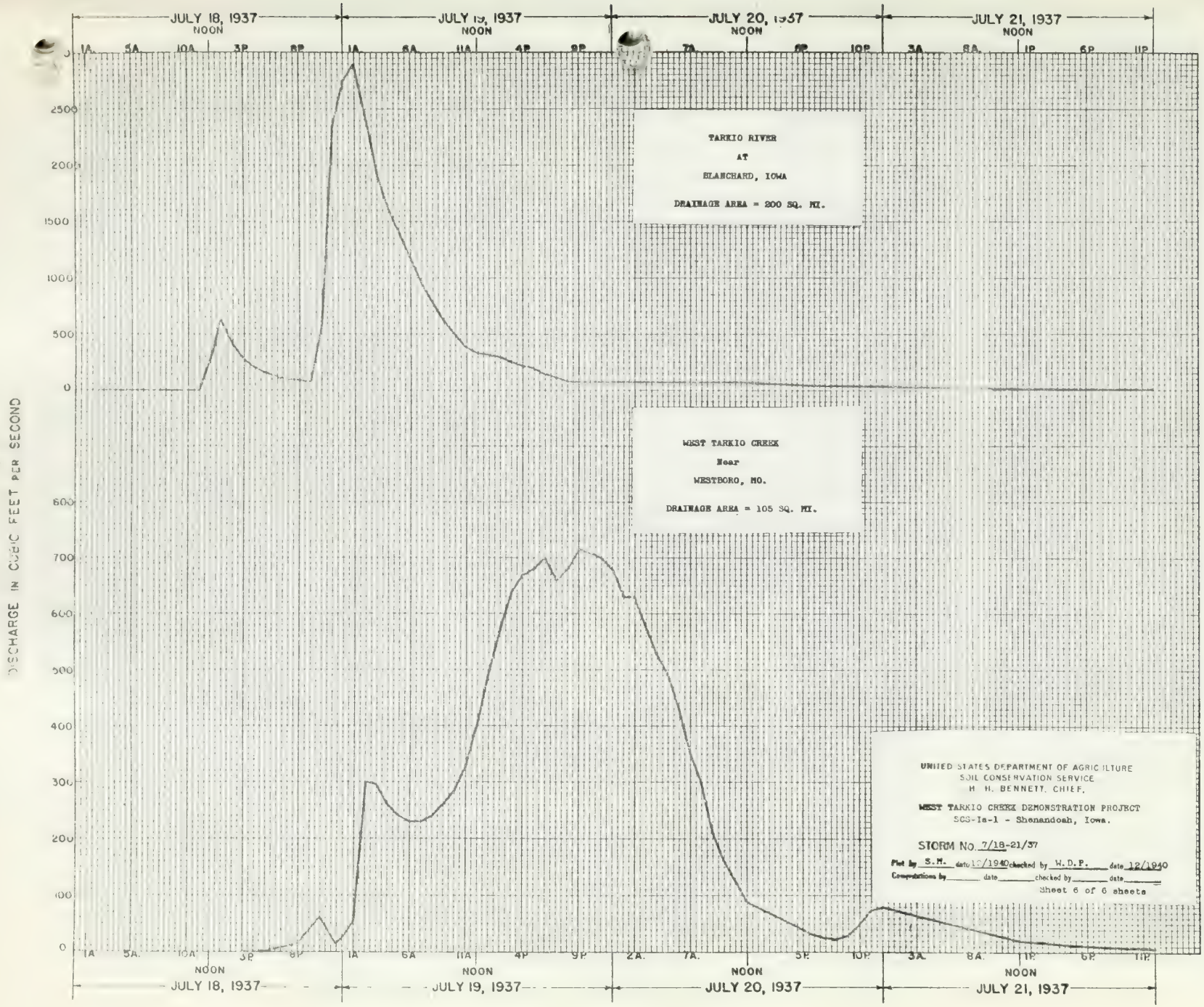

APRIL 7, 1937
APRIL 8, 1937
APRIL 9, 1937
APRIL 10, 1937
NOON
TARKIO RIVER
AT
BLANCHARD, IOWA
DRAINAGE AREA = 200 SQ. MI.
WEST TARKIO CREEK
NEAR
WESTBORO, MO.
DRAINAGE AREA = 105 SQ. MI.
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.
WEST TARKIO CREEK DEMONSTRATION PROJECT
SCS-Ia-1 - Shenandoah, Iowa
STORM No. 4/7-10/37
Plot by date 12/1940 Checked by H.D.P. date 12/1940
Computations by date checked by date
Sheet 1 of 6 sheets

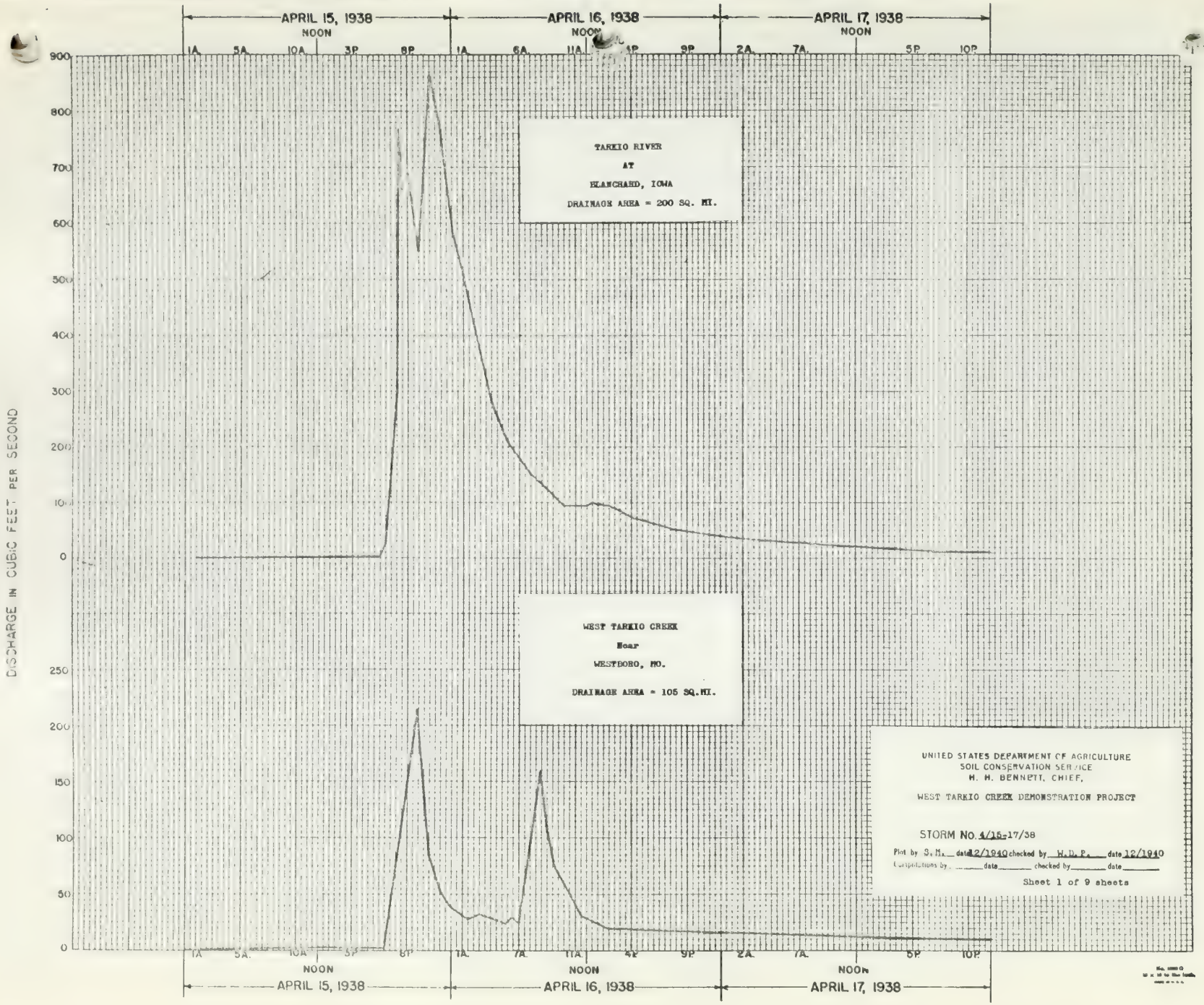

MAY 2, 1937
MAY 3, 1937
MAY 4, 1937
NOON
5A. 10A. 3P. 8P. 1A. 6A. 11A. 4P. 9P. 2A. 7A. 5P. 10P.
250
200
150
100
50
0
DISCHARGE IN CUBIC FEET PER SECOND
TARKIO RIVER
AT
BLANCHARD, IOWA
DRAINAGE AREA = 200 SQ. MI.
WEST TARKIO CREEK
NEAR
WESTBORO, MO.
DRAINAGE AREA = 105 SQ. MI.
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.
WEST TARKIO CREEK DEMONSTRATION PROJECT
SCS-Ia-1 - Shenandoah, Iowa.
STORM No 5/2-4/37
Plot by S.M. date 12/1940 checked by W.D.P. date 12/1940
Computations by date checked by date
Sheet 2 of 6 sheets

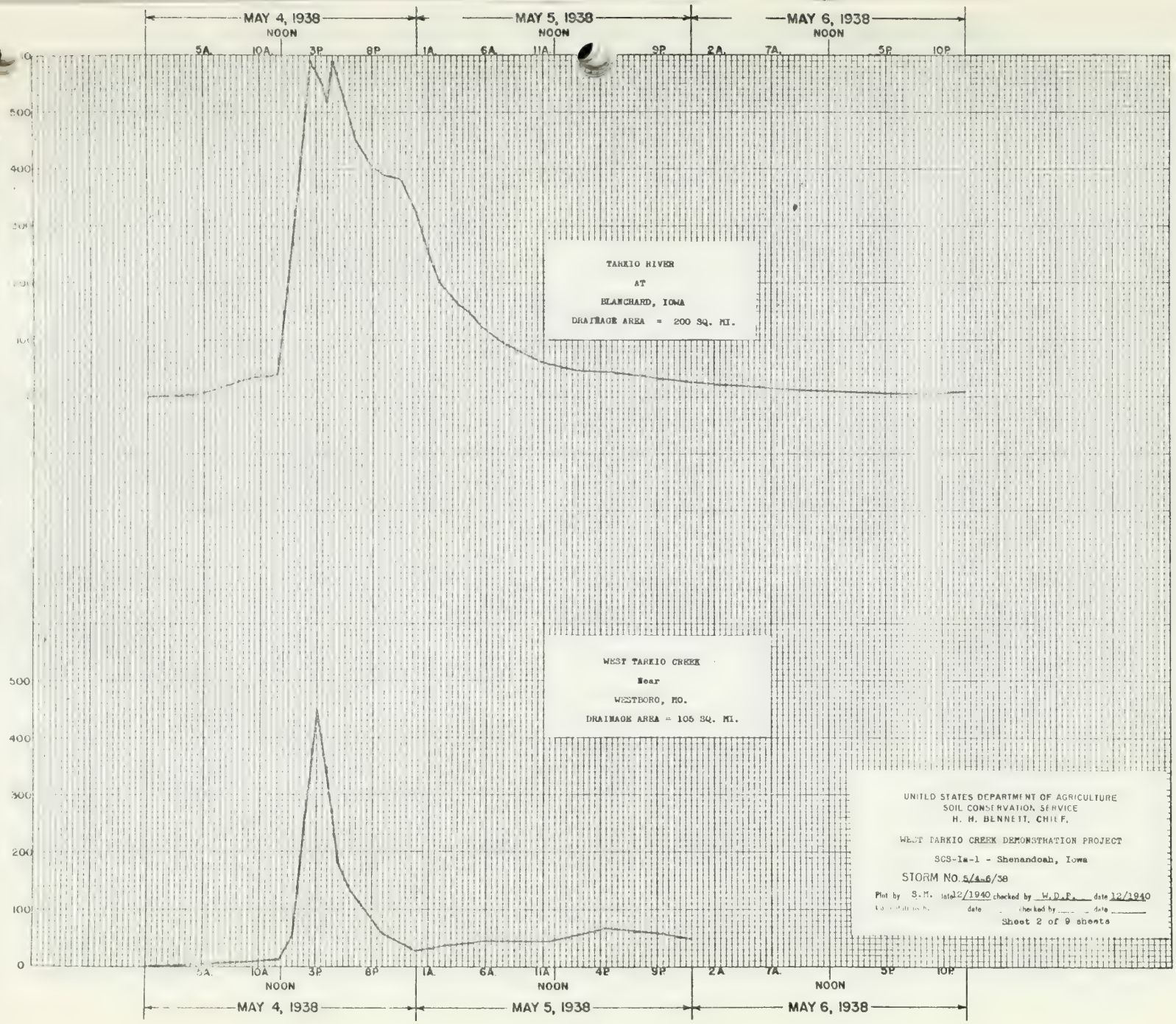

JUNE 13, 1937
JUNE 14, 1937
NOON
1A. 5A. 10A. 3P. 8P. 1A. 6A. 11A. 4P. 9P.
DISCHARGE IN CUBIC FEET PER SECOND
600
500
400
300
200
100
0
TARKIO RIVER
AT
BLANCHARD, IOWA
DRAINAGE AREA = 200 SQ. MI.
WEST TARKIO CREEK
NEAR
WESTBORO, MO.
DRAINAGE AREA = 105 SQ. MI.
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.
WEST TARKIO CREEK DEMONSTRATION PROJECT
SCS-Ia-1 - Shenandoah, Iowa
STORM No. 6/13-14/37
Plot by D.M. date 12/1940 Checked by W.D.F. date 12/1940
Computations by date checked by date
Sheet 3 of 6 sheets

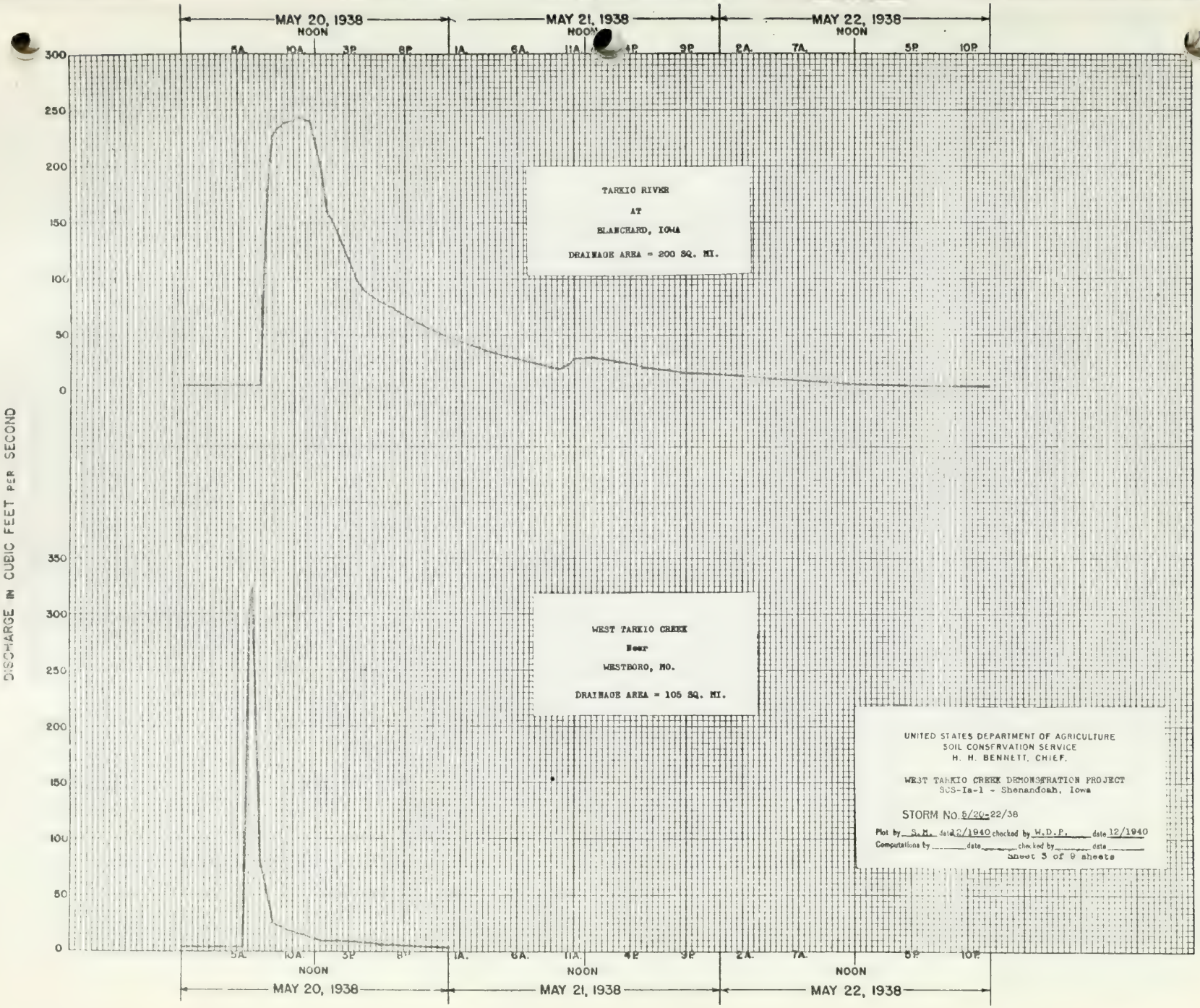

JUNE 15, 1937
JUNE 16, 1937
JUNE 17, 1937
NOON
5A 10A 3P 8P 1A 6A 11A 4P 9P 2A 7A 5P 10P
3500
3000
2500
2000
1500
1000
500
0
1200
1000
800
600
400
200
0
TARKIO RIVER
AT
BLANCHARD, IOWA
&
DRAINAGE AREA = 200 SQ. MI.
WEST TARKIO CREEK
NEAR
WESTBORO, MO.
DRAINAGE AREA = 105 SQ. MI.
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.
WEST TARKIO CREEK DEMONSTRATION PROJECT
SCS-Ia-1 - Shenandoah, Iowa.
STORM No. 6/15-17/37
Plot by S.M. date 12/1940 checked by W.D.P. date 12/1940
Computations by date checked by date
Sheet 4 of 6 sheets

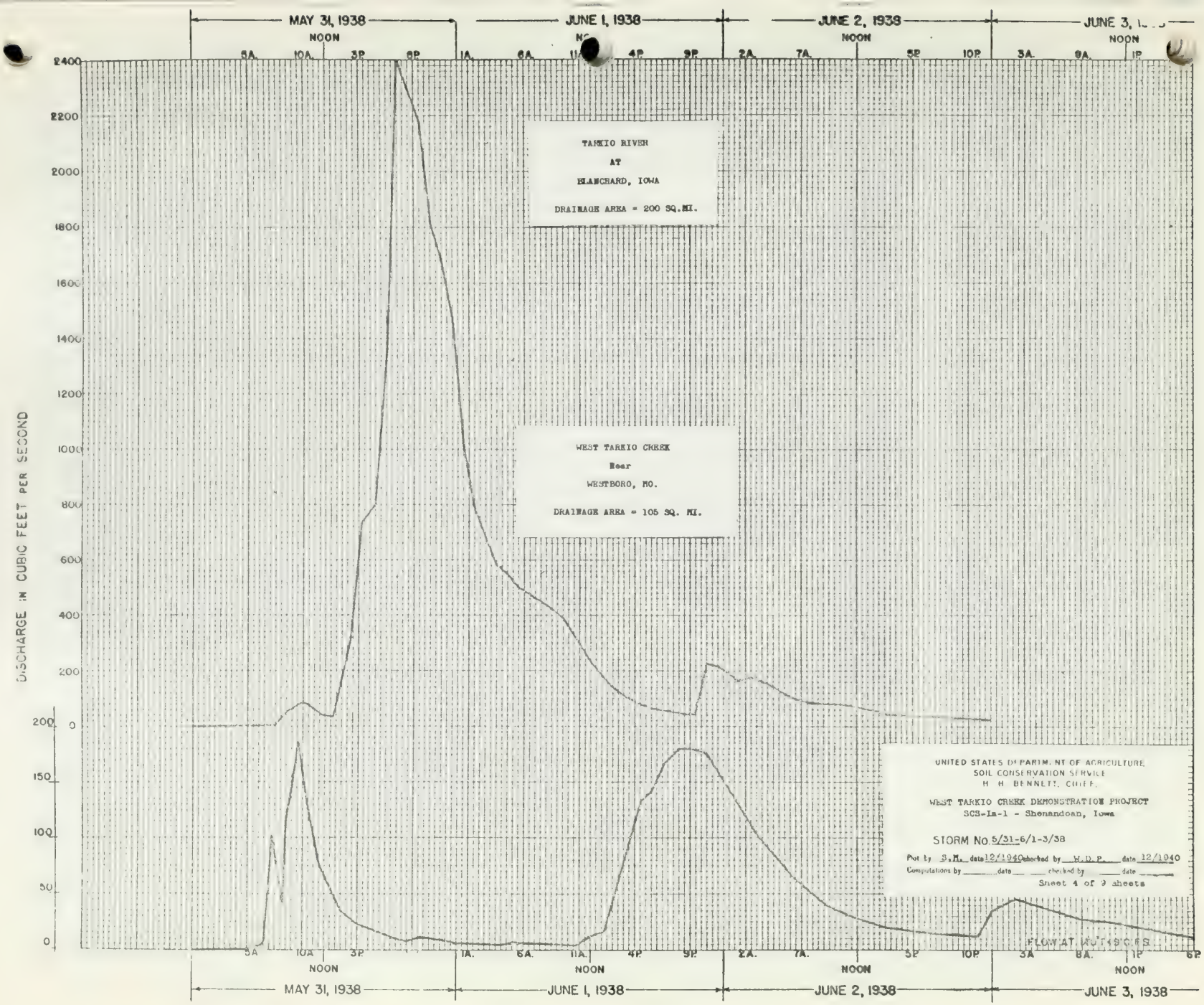

JULY 12, 1937
JULY , 1937
JULY 14, 1
JULY 15, 1937
NOON
5A. 10A. 3P. 8P. 1A. 6A. 11A. 4P. 9P. 2A. 7A. 5P. 10P. 3A. 8A. 1P. 6P. 11P.
1000
900
800
700
600
500
400
300
200
100
0
CUBIC FEET PER SECOND
JULY 12, 1937
JULY 13, 1937
JULY 14, 1937
JULY 15, 1937
TARKIO RIVER
AT
BLANCHARD, IOWA
DRAINAGE AREA = 200 SQ. MI.
WEST TARKIO CREEK
Near
WESTBORO, MO.
DRAINAGE AREA = 105 SQ. MI.
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.
WEST TARKIO CREEK DEMONSTRATION PROJECT
SCS-Ia-1 - Shenandoah, Iowa.
STORM NO. 7/12-15/37
Plot by S.M. date 12/1940 checked by W.D.F. date 12/1940
Computations by _____ date _____ checked by _____ date _____
Sheet 5 of 6 sheets

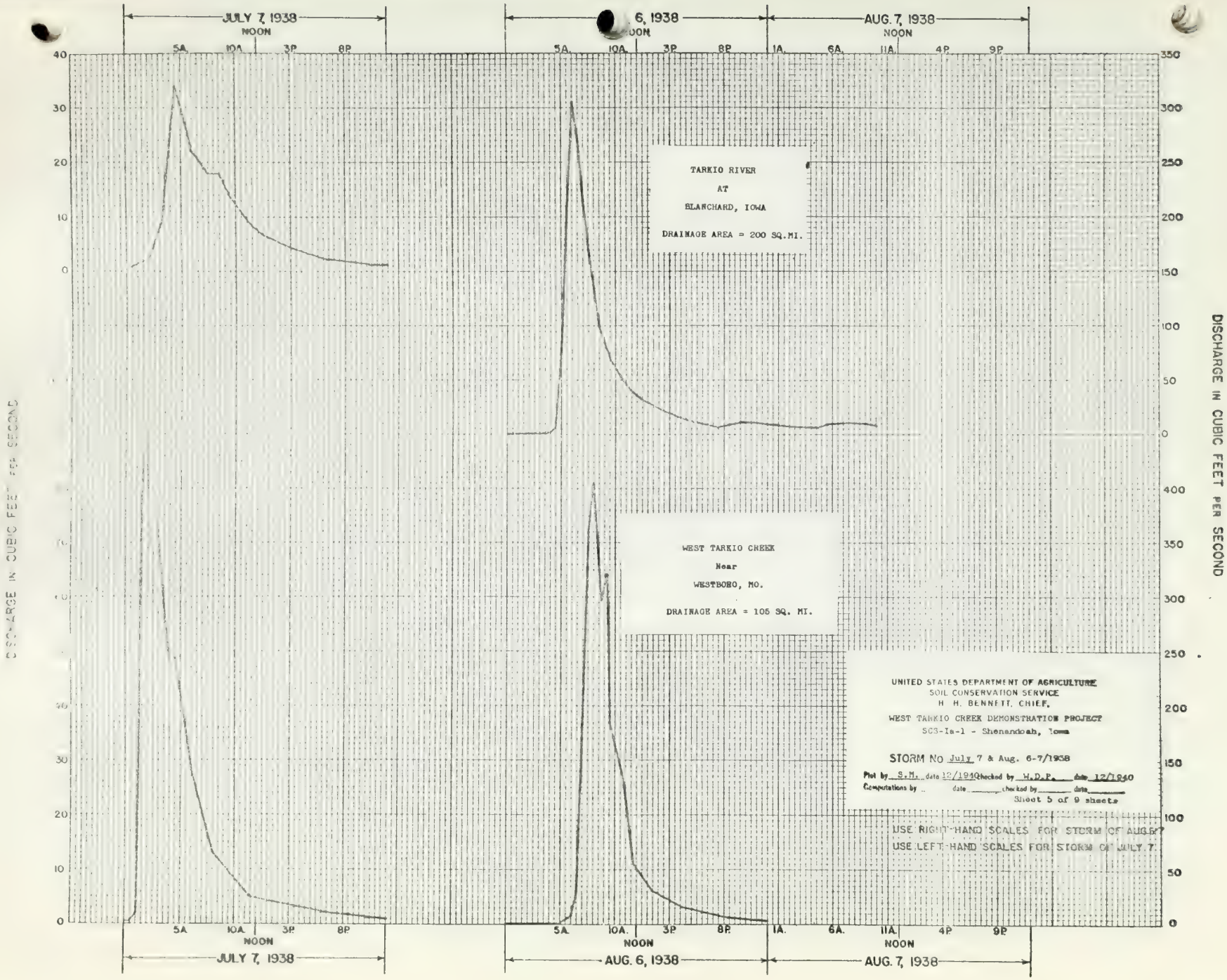

JULY 18, 1937
JULY 19, 1937
JULY 20, 1937
JULY 21, 1937
NOON
DISCHARGE IN CUBIC FEET PER SECOND
TARKIO RIVER
AT
BLANCHARD, IOWA
DRAINAGE AREA = 200 SQ. MI.
WEST TARKIO CREEK
Near
WESTBORO, MO.
DRAINAGE AREA = 105 SQ. MI.
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.
WEST TARKIO CREEK DEMONSTRATION PROJECT
SCS-Ia-1 - Shenandoah, Iowa.
STORM No. 7/18-21/37
Plot by S.M. date 12/1940 checked by W.D.P. date 12/1940
Computations by ____ date ____ checked by ____ date ____
Sheet 6 of 6 sheets

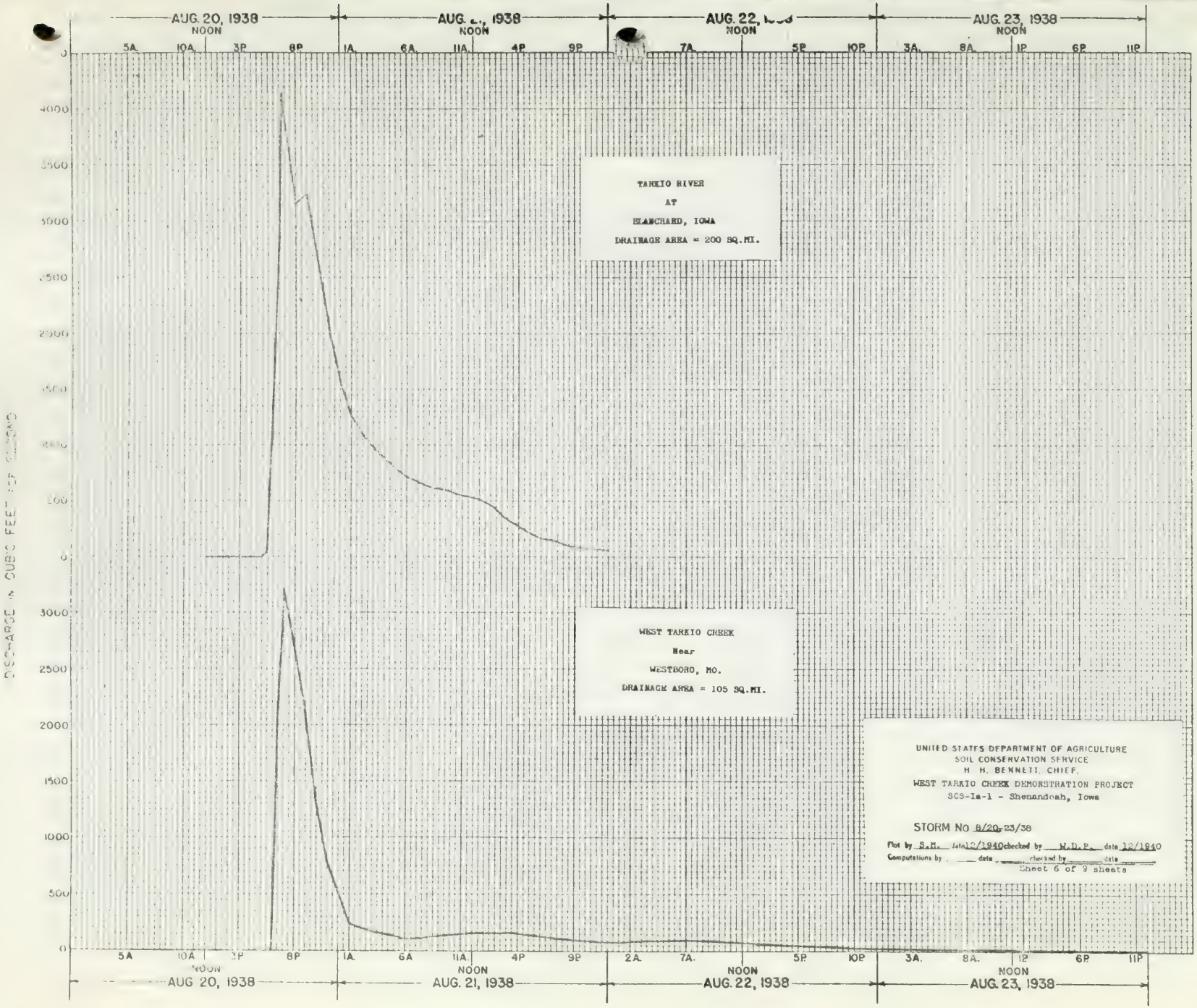

APRIL 15, 1938
APRIL 16, 1938
APRIL 17, 1938
NOON
1A. 5A. 10A. 3P. 8P. 1A. 6A. 11A. 4P. 9P. 2A. 7A. 5P. 10P.
DISCHARGE IN CUBIC FEET PER SECOND
900 800 700 600 500 400 300 200 100 0
250 200 150 100 50 0
TARKIO RIVER
AT
BLANCHARD, IOWA
DRAINAGE AREA = 200 SQ. MI.
WEST TARKIO CREEK
Near
WESTBORO, MO.
DRAINAGE AREA = 105 SQ.MI.
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF,
WEST TARKIO CREEK DEMONSTRATION PROJECT
STORM NO. 4/15-17/38
Plot by S. M. date 12/1940 checked by W. D. P. date 12/1940
Computations by ____ date ____ checked by ____ date ____
Sheet 1 of 9 sheets

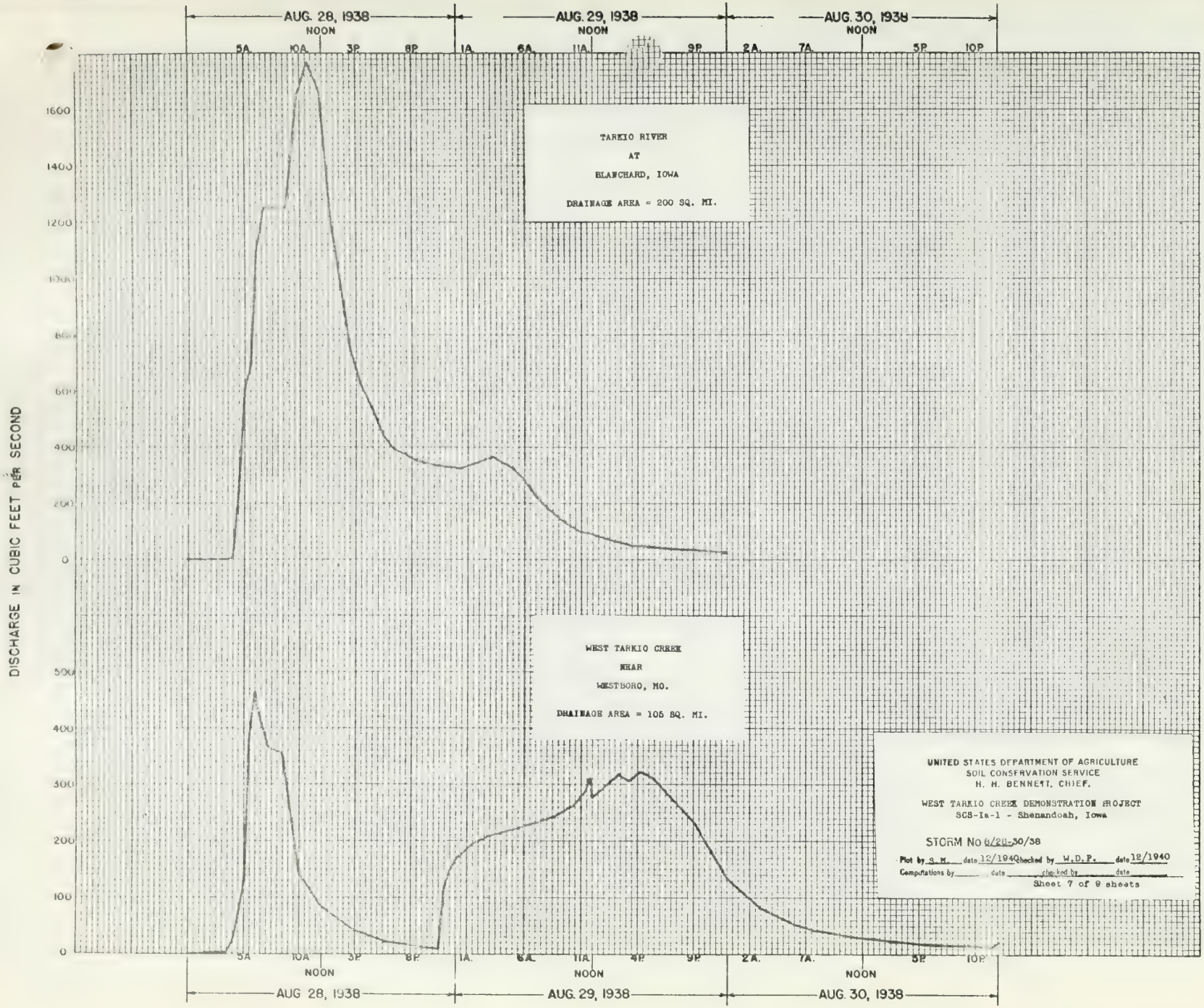

MAY 4, 1938
MAY 5, 1938
MAY 6, 1938
NOON
5A. 10A. 3P. 8P. 1A. 6A. 11A. 9P. 2A. 7A. 5P. 10P.
500
400
300
200
100
0
TARKIO RIVER
AT
BLANCHARD, IOWA
DRAINAGE AREA = 200 SQ. MI.
WEST TARKIO CREEK
Near
WESTBORO, MO.
DRAINAGE AREA = 105 SQ. MI.
4P.
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.
WEST TARKIO CREEK DEMONSTRATION PROJECT
SCS-Ia-1 - Shenandoah, Iowa
STORM NO. 5/4-6/38
Plot by S.M. date 12/1940 checked by W.D.F. date 12/1940
Sheet 2 of 9 sheets

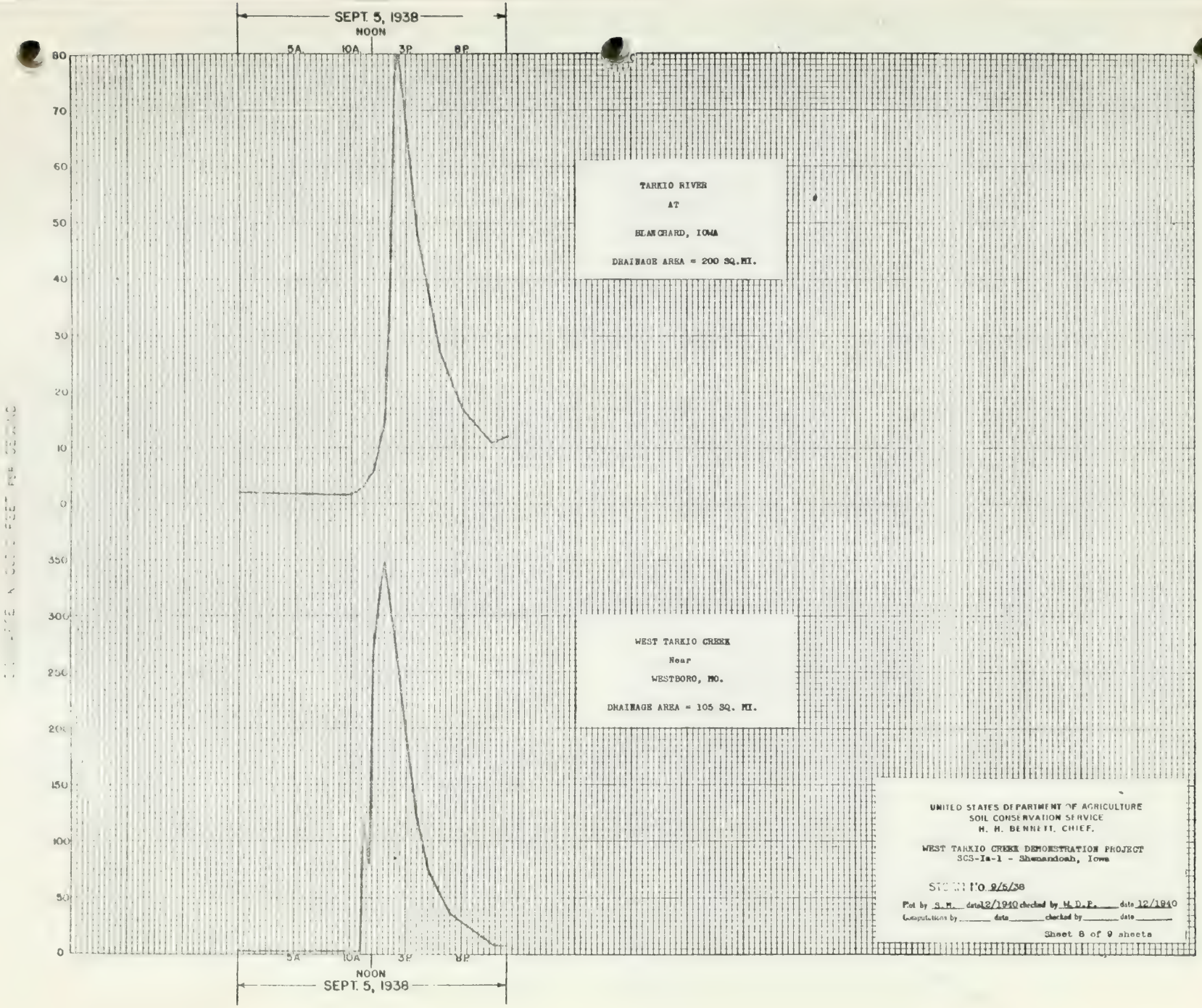

MAY 20, 1938
MAY 21, 1938
MAY 22, 1938
NOON
5A. 10A. 3P. 8P. 1A. 6A. 11A. 4P. 9P. 2A. 7A. 5P. 10P.
DISCHARGE IN CUBIC FEET PER SECOND
300
250
200
150
100
50
0
350
TARKIO RIVER
AT
BLANCHARD, IOWA
DRAINAGE AREA = 200 SQ. MI.
WEST TARKIO CREEK
Near
WESTBORO, MO.
DRAINAGE AREA = 105 SQ. MI.
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.
WEST TARKIO CREEK DEMONSTRATION PROJECT
SCS-Ia-1 - Shenandoah, Iowa
STORM No. 5/20-22/38
Plot by S.M. date 2/1940 checked by W.D.P. date 12/1940
Computations by date checked by date
Sheet 3 of 9 sheets

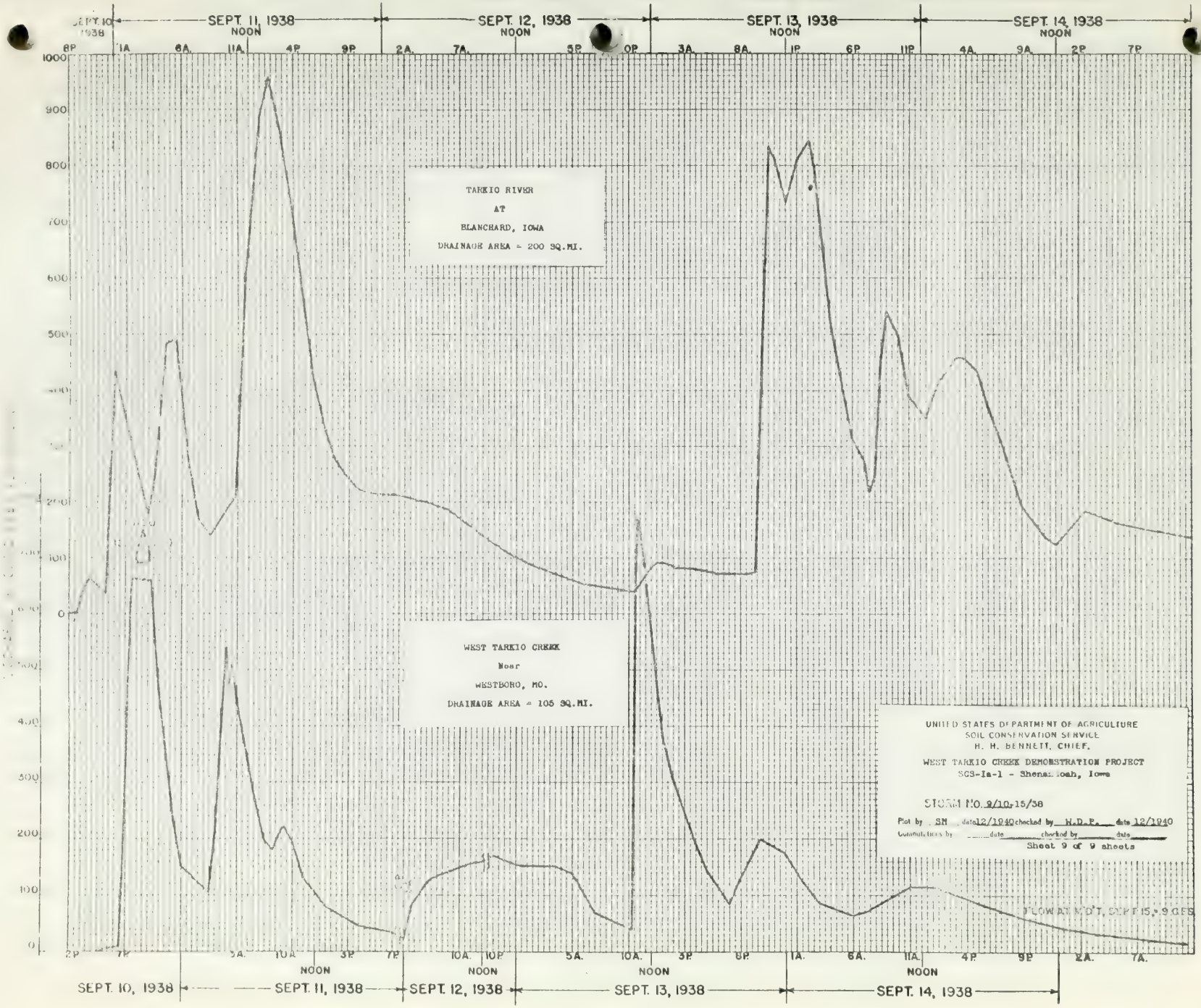

MAY 31, 1938
JUNE 1, 1938
JUNE 2, 1938
JUNE 3, 1938
NOON
5A. 10A. 3P. 8P. 1A. 6A. 11A. 4P. 9P. 2A. 7A. 5P. 10P. 3A. 8A. 1P. 6P.
DISCHARGE IN CUBIC FEET PER SECOND
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
200
150
100
50
0
TARKIO RIVER
AT
BLANCHARD, IOWA
DRAINAGE AREA = 200 SQ. MI.
WEST TARKIO CREEK
Near
WESTBORO, MO.
DRAINAGE AREA = 105 SQ. MI.
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.
WEST TARKIO CREEK DEMONSTRATION PROJECT
SCS-Im-1 - Shenandoah, Iowa
STORM No. 5/31-6/1-3/38
Plot by S.M. date 12/1940 checked by W.D.P. date 12/1940
Computations by _____ date _____ checked by _____ date _____
Sheet 4 of 9 sheets
FLOW AT AVERAGE RATE

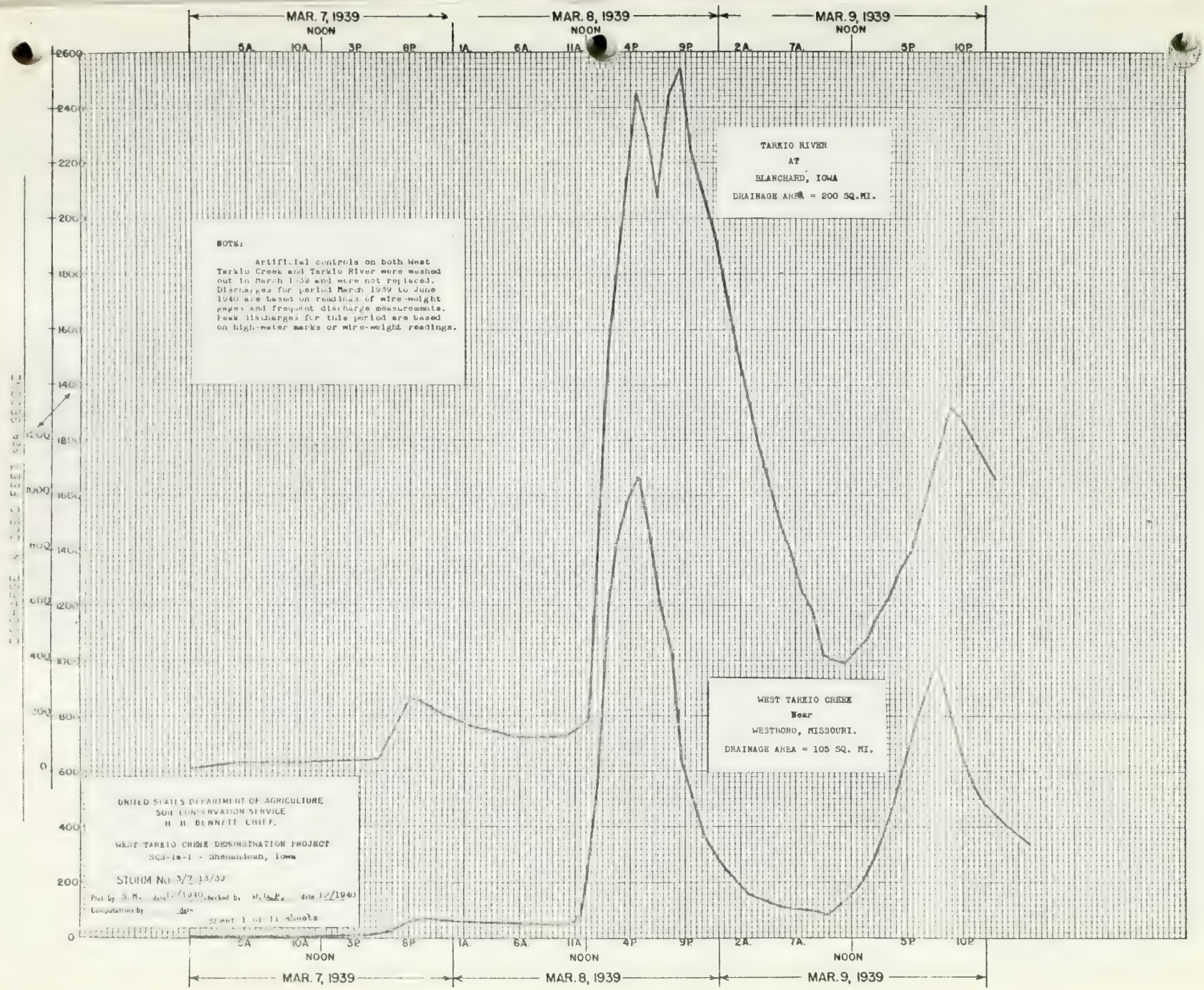

JULY 7, 1938
NOON
5A. 10A. 3P. 8P.
6, 1938
NOON
5A. 10A. 3P. 8P.
AUG. 7, 1938
NOON
1A. 6A. 11A. 4P. 9P.
TARKIO RIVER
AT
BLANCHARD, IOWA
DRAINAGE AREA = 200 SQ. MI.
WEST TARKIO CREEK
Near
WESTBORO, MO.
DRAINAGE AREA = 105 SQ. MI.
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.
WEST TARKIO CREEK DEMONSTRATION PROJECT
SCS-Ia-1 - Shenandoah, Iowa
STORM No July 7 & Aug. 6-7/1938
Plot by S.M. date 12/1940 checked by W.D.P. date 12/1940
Computations by date checked by date
Sheet 5 of 9 sheets
USE RIGHT-HAND SCALES FOR STORM OF AUG. 6-7
USE LEFT-HAND SCALES FOR STORM OF JULY 7.
DISCHARGE IN CUBIC FEET PER SECOND
DISCHARGE IN CUBIC FEET PER SECOND
0 10 20 30 40
0 50 100 150 200 250 300 350 400
0 50 100 150 200 250 300 350

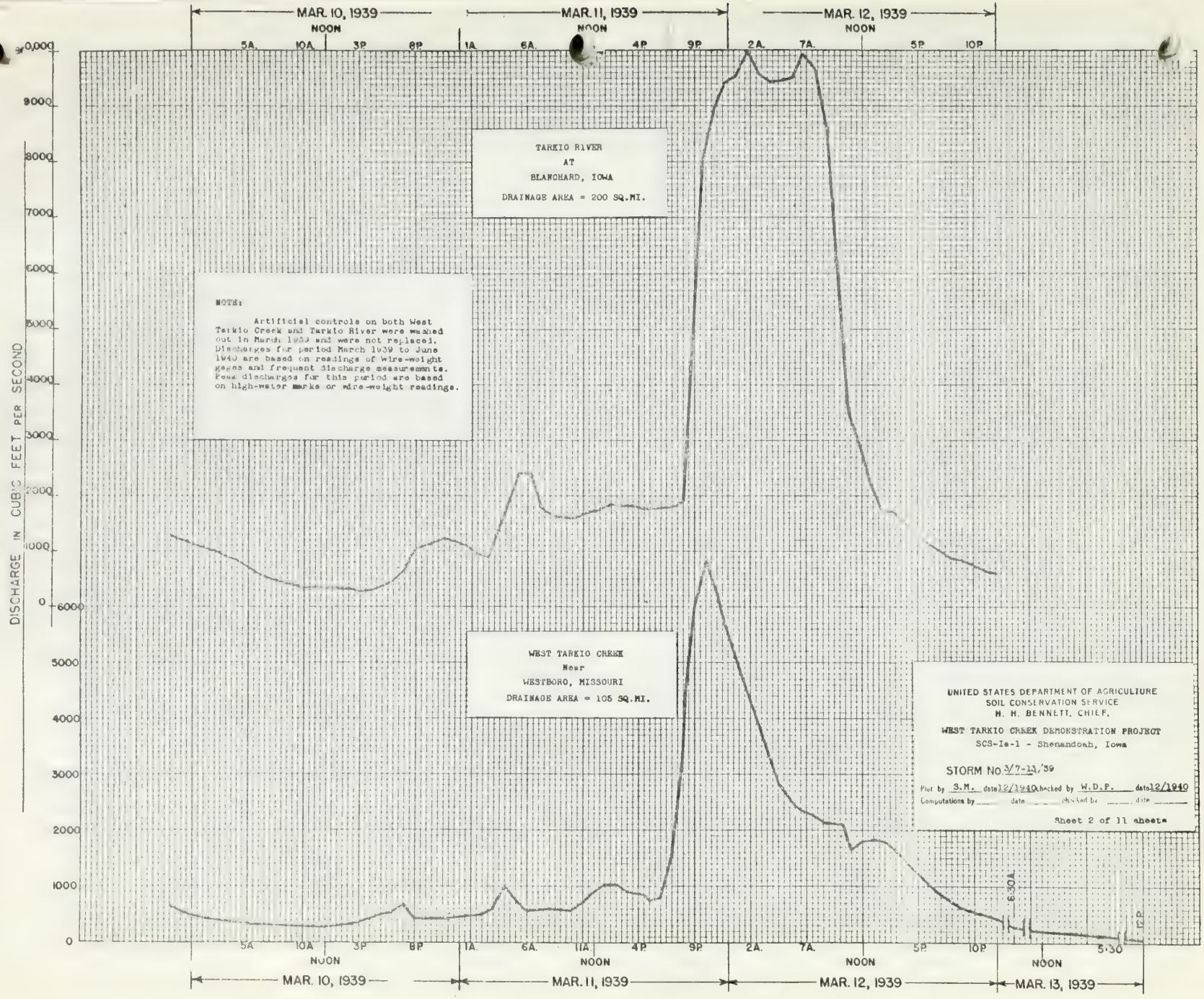

AUG. 20, 1938
AUG. 21, 1938
AUG. 22, 1938
AUG. 23, 1938
NOON
5A. 10A. 3P 8P 1A. 6A. 11A. 4P 9P 7A. 5P 10P 3A. 8A. 1P 6P 11P
DISCHARGE IN CUBIC FEET PER SECOND
4000
3500
3000
2500
2000
1500
1000
500
0
TARKIO RIVER
AT
BLANCHARD, IOWA
DRAINAGE AREA = 200 SQ.MI.
WEST TARKIO CREEK
Near
WESTBORO, MO.
DRAINAGE AREA = 105 SQ.MI.
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.
WEST TARKIO CREEK DEMONSTRATION PROJECT
SCS-Ia-1 - Shenandoah, Iowa
STORM No 8/20-23/38
Plot by S.H. date 12/1940 checked by W.D.P. date 12/1940
Computations by ____ date ____ checked by ____ date ____
Sheet 6 of 9 sheets

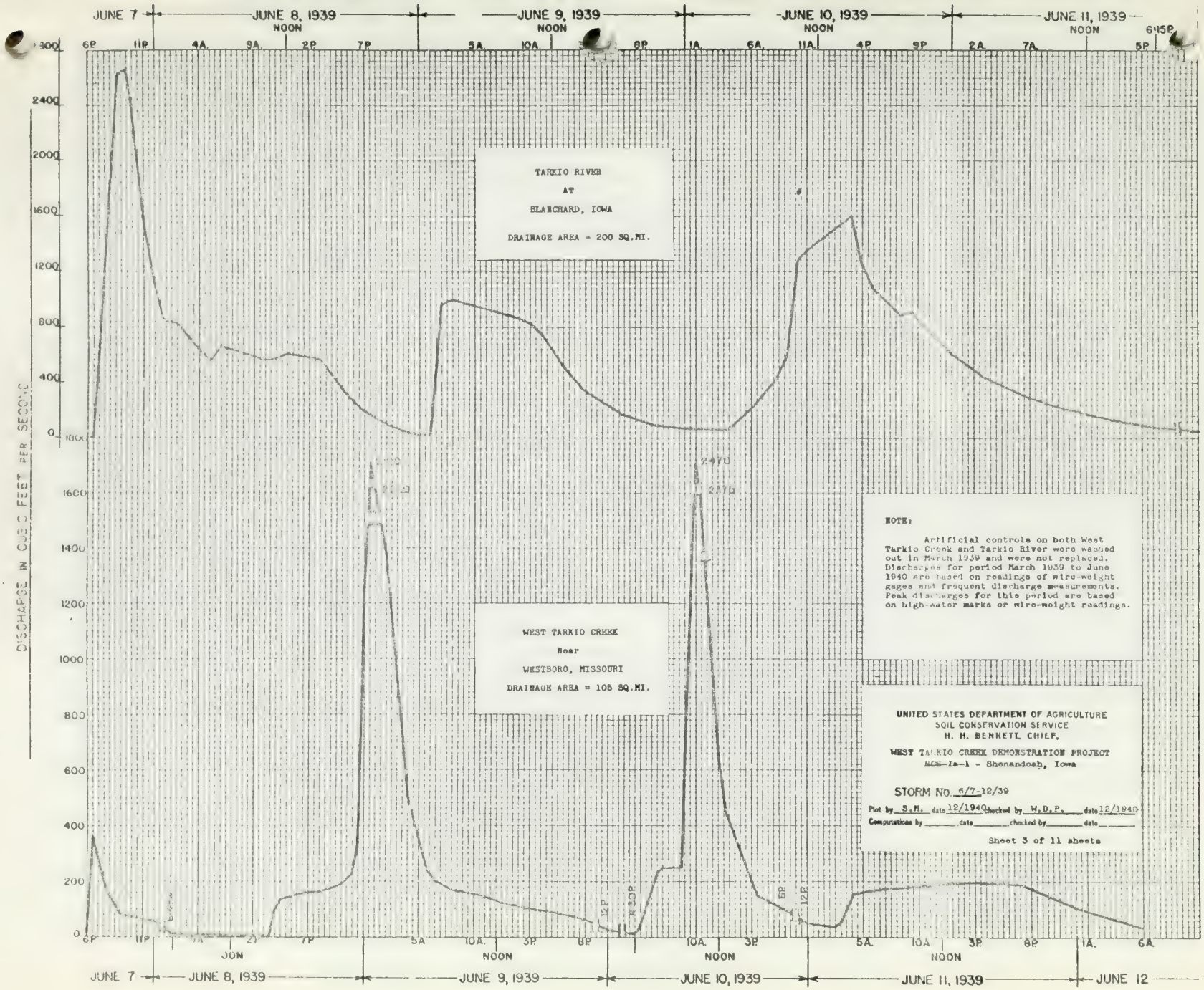

AUG. 28, 1938
AUG. 29, 1938
AUG. 30, 1938
NOON
5A. 10A. 3P. 8P. 1A. 6A. 11A. 4P. 9P. 2A. 7A. 5P. 10P.
DISCHARGE IN CUBIC FEET PER SECOND
1600
1400
1200
1000
800
600
400
200
0
500
400
300
200
100
0
TARKIO RIVER
AT
BLANCHARD, IOWA
DRAINAGE AREA = 200 SQ. MI.
WEST TARKIO CREEK
NEAR
WESTBORO, MO.
DRAINAGE AREA = 105 SQ. MI.
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.
WEST TARKIO CREEK DEMONSTRATION PROJECT
SCS-Ia-1 - Shenandoah, Iowa
STORM No 8/28-30/38
Plot by S. M. date 12/1940 Checked by W.D.P. date 12/1940
Computations by date checked by date
Sheet 7 of 9 sheets

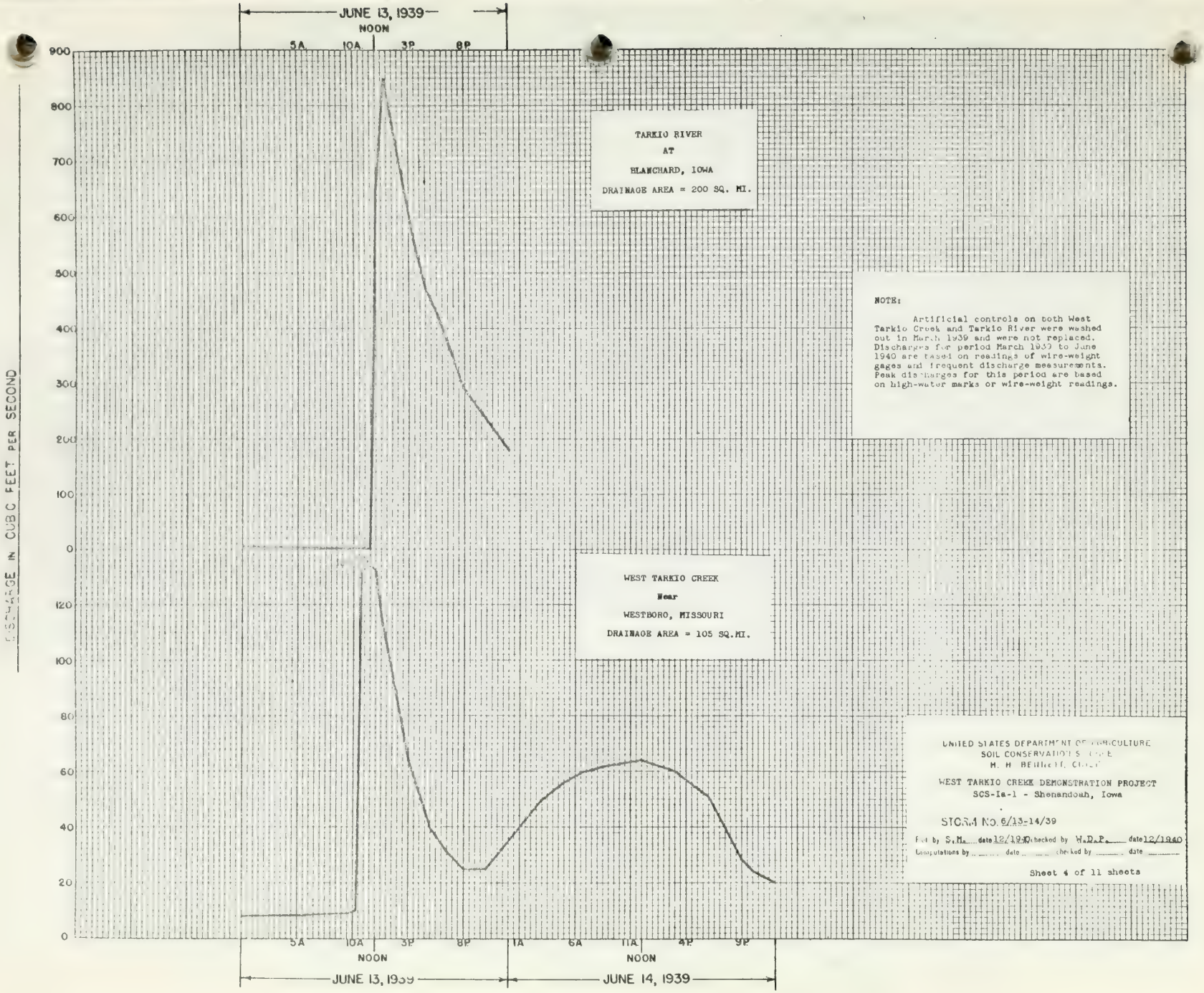

SEPT. 5, 1938
NOON
5A
10A
3P
8P
80
70
60
50
40
30
20
10
0
350
300
250
200
150
100
50
0
TARKIO RIVER
AT
BLANCHARD, IOWA
DRAINAGE AREA = 200 SQ. MI.
WEST TARKIO CREEK
Near
WESTBORO, MO.
DRAINAGE AREA = 105 SQ. MI.
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.
WEST TARKIO CREEK DEMONSTRATION PROJECT
SCS-Ia-1 - Shenandoah, Iowa
9/5/38
Plot by S.M. date 12/1940 checked by H.D.E. date 12/1940
Computations by ____ date ____ checked by ____ date ____
Sheet 8 of 9 sheets

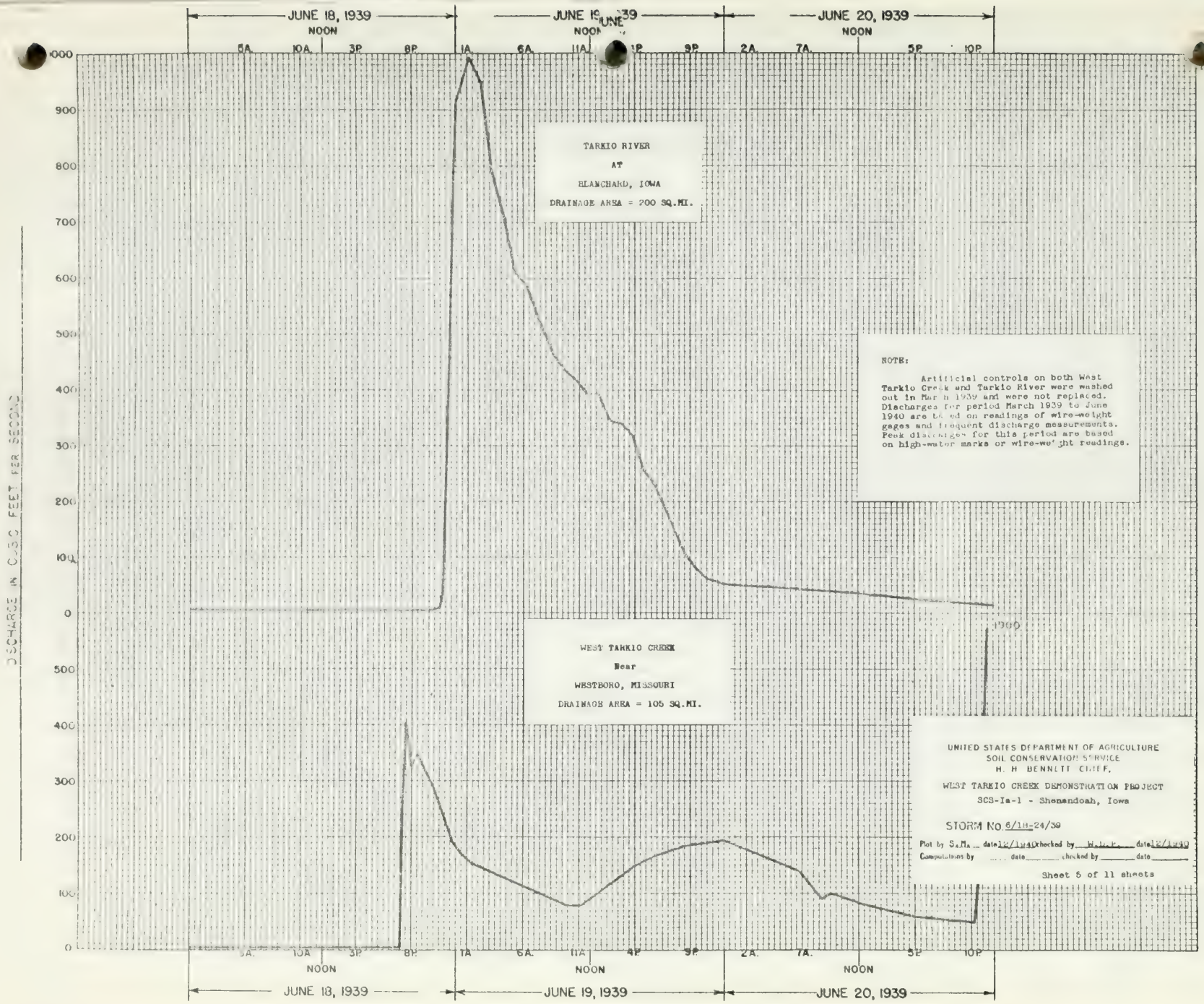

SEPT. 10 1938
SEPT. 11, 1938
SEPT. 12, 1938
SEPT. 13, 1938
SEPT. 14, 1938
NOON
8P 1A 6A 11A 4P 9P 2A 7A 5P 0P 3A 8A 1P 6P 11P 4A 9A 2P 7P
1000 900 800 700 600 500 400 300 200 100 0
TARKIO RIVER
AT
BLANCHARD, IOWA
DRAINAGE AREA = 200 SQ.MI.
WEST TARKIO CREEK
Near
WESTBORO, MO.
DRAINAGE AREA = 105 SQ.MI.
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.
WEST TARKIO CREEK DEMONSTRATION PROJECT
SCS-Ia-1 - Shenandoah, Iowa
STORM NO. 9/10-15/38
Plot by SM date 12/1940 checked by H.D.P. date 12/1940
Computations by date checked by date
Sheet 9 of 9 sheets
FLOW AT M'D'T, SEPT 15, 9 CFS
2P 7P 5A 10A 3P 7P 10A 10P 5A 10A 3P 8P 1A 6A 11A 4P 9P 2A 7A
NOON
SEPT. 10, 1938
SEPT. 11, 1938
SEPT. 12, 1938
SEPT. 13, 1938
SEPT. 14, 1938

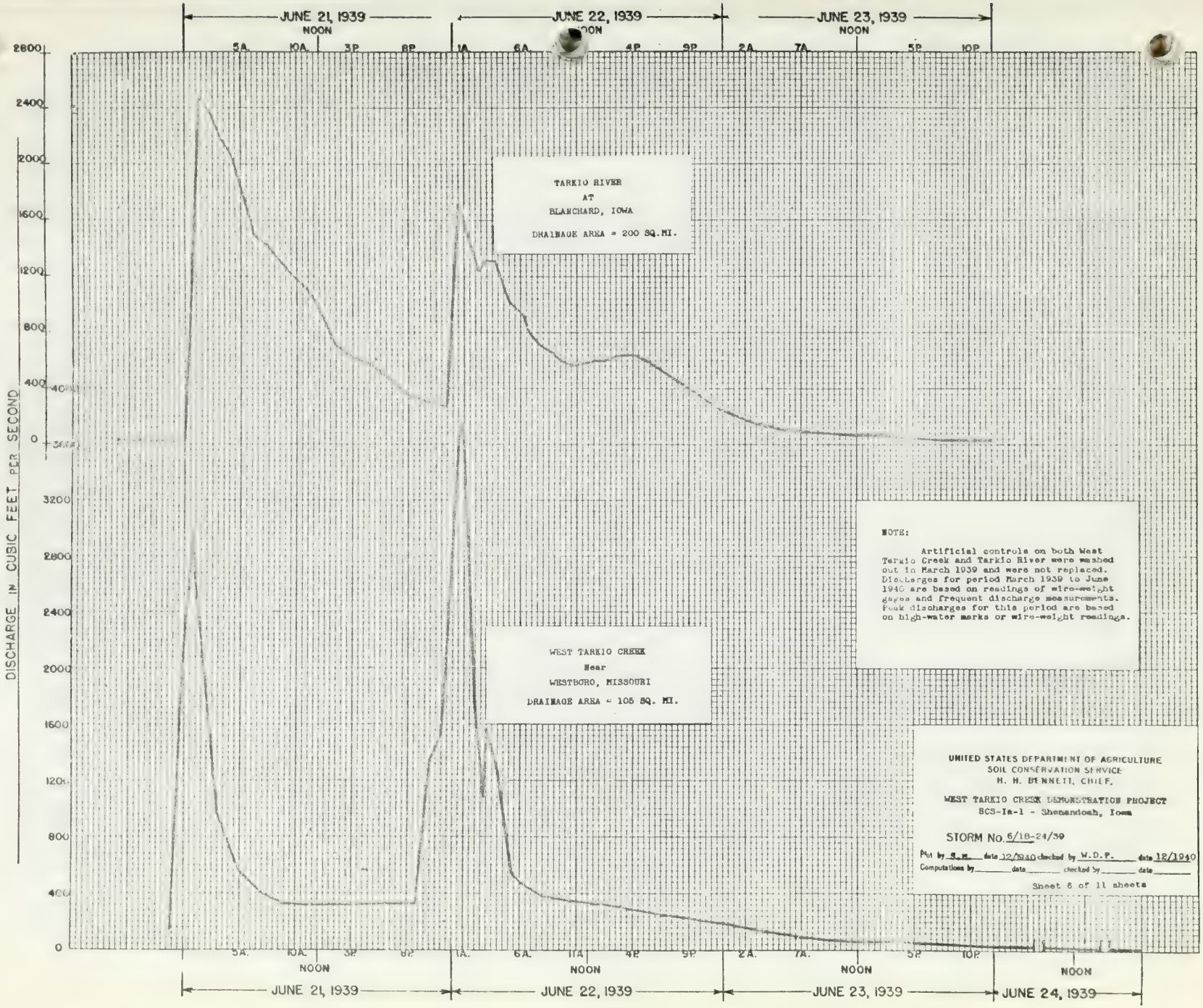

MAR. 7, 1939
MAR. 8, 1939
MAR. 9, 1939
NOON
5A. 10A. 3P 8P 1A. 6A. 11A 4P 9P 2A. 7A. 5P 10P
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
DISCHARGE IN CUBIC FEET PER SECOND
TARKIO RIVER
AT
BLANCHARD, IOWA
DRAINAGE AREA = 200 SQ.MI.
NOTE:
Artificial controls on both West Tarkio Creek and Tarkio River were washed out in March 1939 and were not replaced. Discharges for period March 1939 to June 1940 are based on readings of wire-weight gages and frequent discharge measurements. Peak discharges for this period are based on high-water marks or wire-weight readings.
WEST TARKIO CREEK
Near
WESTBORO, MISSOURI.
DRAINAGE AREA = 105 SQ. MI.
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.
WEST TARKIO CREEK DEMONSTRATION PROJECT
SCS-Ia-1 - Shenandoah, Iowa
STORM No. 3/7-13/39
Plot by S. M. date 12/1940 checked by W. W. E. date 12/1940
Computations by date
Sheet 1 of 11 sheets

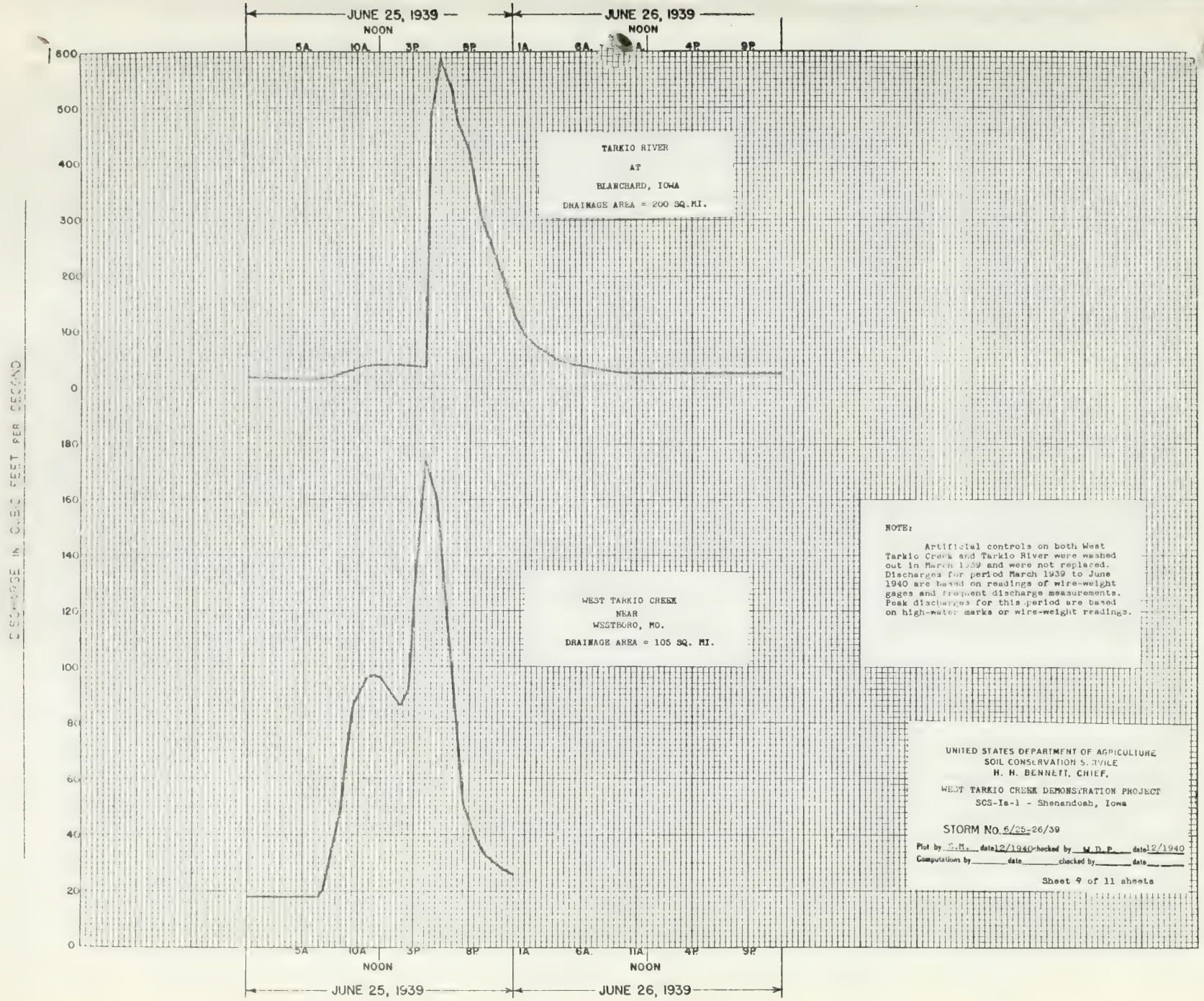

MAR. 10, 1939
MAR. 11, 1939
MAR. 12, 1939
MAR. 13, 1939
NOON
5A. 10A. 3P. 8P. 1A. 6A. 11A. 4P. 9P. 2A. 7A. 5P. 10P. 5:30
DISCHARGE IN CUBIC FEET PER SECOND
10,000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
TARKIO RIVER
AT
BLANCHARD, IOWA
DRAINAGE AREA = 200 SQ.MI.
NOTE:
Artificial controls on both West Tarkio Creek and Tarkio River were washed out in March 1939 and were not replaced. Discharges for period March 1939 to June 1940 are based on readings of wire-weight gages and frequent discharge measurements. Peak discharges for this period are based on high-water marks or wire-weight readings.
WEST TARKIO CREEK
Near
WESTBORO, MISSOURI
DRAINAGE AREA = 105 SQ.MI.
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.
WEST TARKIO CREEK DEMONSTRATION PROJECT
SCS-Ia-1 - Shenandoah, Iowa
STORM No. 3/7-11/39
Plot by S.M. date 12/1940 checked by W.D.P. date 12/1940
Computations by ____ date ____ checked by ____ date ____
Sheet 2 of 11 sheets

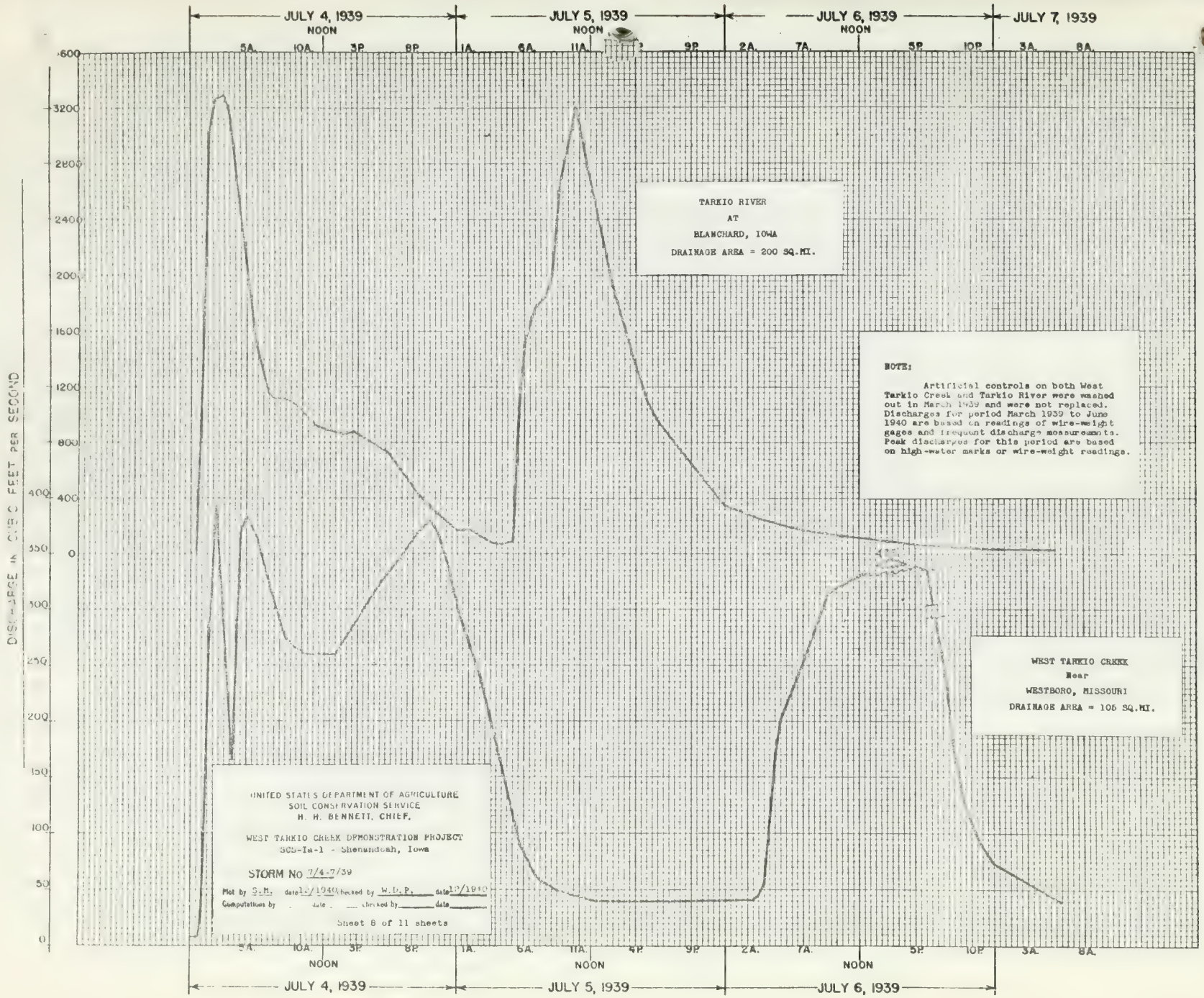

JUNE 7
JUNE 8, 1939
JUNE 9, 1939
JUNE 10, 1939
JUNE 11, 1939
JUNE 12
NOON
DISCHARGE IN CUBIC FEET PER SECOND
TARKIO RIVER
AT
BLANCHARD, IOWA
DRAINAGE AREA = 200 SQ.MI.
WEST TARKIO CREEK
Near
WESTBORO, MISSOURI
DRAINAGE AREA = 105 SQ.MI.
2470
2310
NOTE:
Artificial controls on both West Tarkio Creek and Tarkio River were washed out in March 1939 and were not replaced. Discharges for period March 1939 to June 1940 are based on readings of wire-weight gages and frequent discharge measurements. Peak discharges for this period are based on high-water marks or wire-weight readings.
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF,
WEST TARKIO CREEK DEMONSTRATION PROJECT
SCS-Ia-1 - Shenandoah, Iowa
STORM NO. 6/7-12/39
Plot by S.M. date 12/1940 checked by W.D.P. date 12/1940
Computations by _____ date _____ checked by _____ date _____
Sheet 3 of 11 sheets

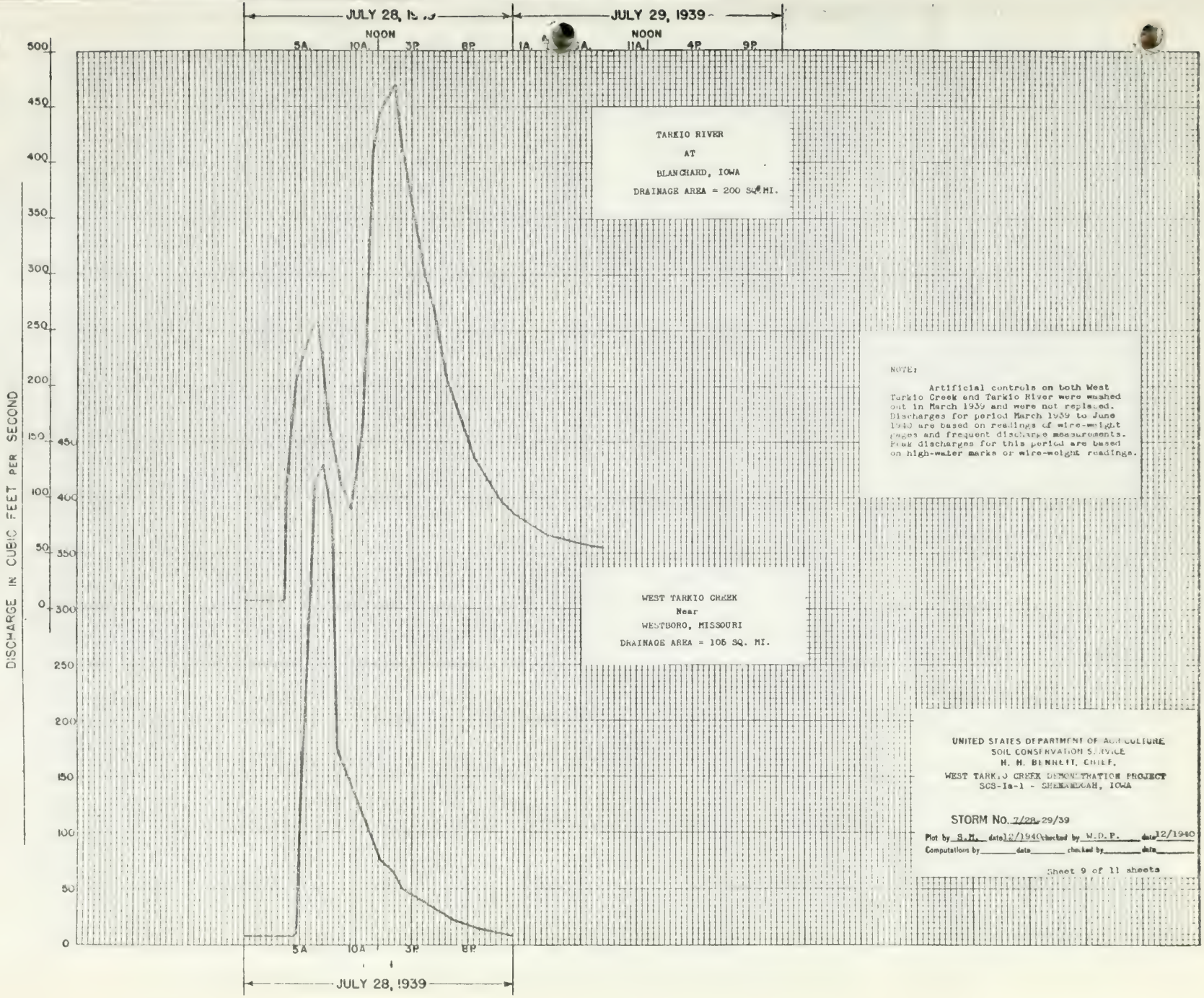

JUNE 13, 1939
NOON
5A
10A
3P
8P
1A
6A
11A
4P
9P
NOON
NOON
JUNE 13, 1939
JUNE 14, 1939
DISCHARGE IN CUBIC FEET PER SECOND
900
800
700
600
500
400
300
200
100
0
120
100
80
60
40
20
0
TARKIO RIVER
AT
BLANCHARD, IOWA
DRAINAGE AREA = 200 SQ. MI.
WEST TARKIO CREEK
Near
WESTBORO, MISSOURI
DRAINAGE AREA = 105 SQ.MI.
NOTE:
Artificial controls on both West Tarkio Creek and Tarkio River were washed out in March 1939 and were not replaced. Discharges for period March 1939 to June 1940 are based on readings of wire-weight gages and frequent discharge measurements. Peak discharges for this period are based on high-water marks or wire-weight readings.
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
M. H. BENNETT, CHIEF
WEST TARKIO CREEK DEMONSTRATION PROJECT
SCS-Ia-1 - Shenandoah, Iowa
STORM NO. 6/13-14/39
Plot by S.M. date 12/1940 checked by W.D.P. date 12/1940
Computations by ____ date ____ checked by ____ date ____
Sheet 4 of 11 sheets

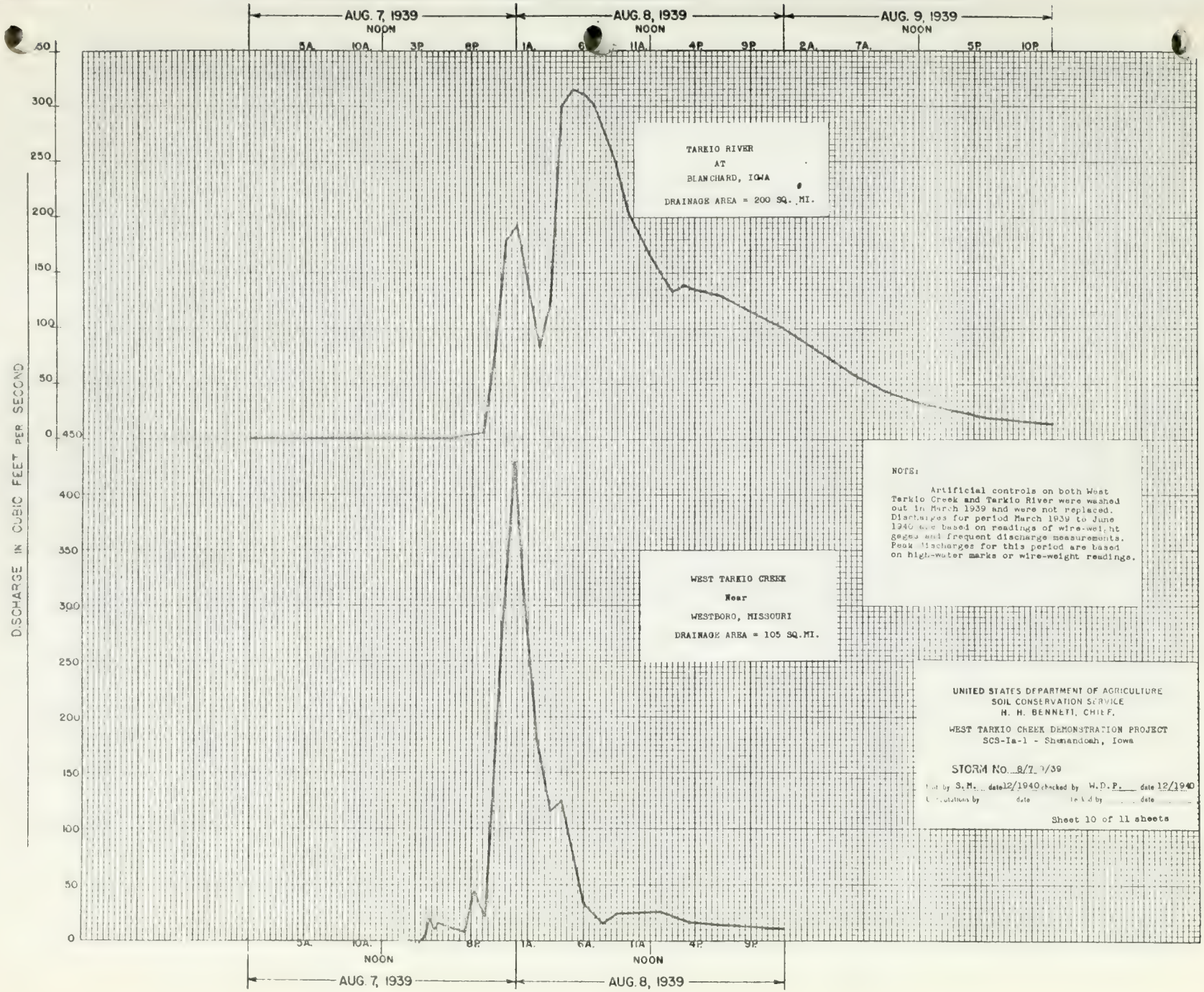

JUNE 18, 1939
JUNE 19, 1939
JUNE 20, 1939
NOON
5A. 10A. 3P. 8P. 1A. 6A. 11A. 4P. 9P. 2A. 7A. 5P. 10P.
DISCHARGE IN CUBIC FEET PER SECOND
1000
900
800
700
600
500
400
300
200
100
0
TARKIO RIVER
AT
BLANCHARD, IOWA
DRAINAGE AREA = 200 SQ.MI.
NOTE:
Artificial controls on both West Tarkio Creek and Tarkio River were washed out in March 1939 and were not replaced. Discharges for period March 1939 to June 1940 are based on readings of wire-weight gages and frequent discharge measurements. Peak discharges for this period are based on high-water marks or wire-weight readings.
WEST TARKIO CREEK
Near
WESTBORO, MISSOURI
DRAINAGE AREA = 105 SQ.MI.
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT CHIEF.
WEST TARKIO CREEK DEMONSTRATION PROJECT
SCS-Ia-1 - Shenandoah, Iowa
STORM No. 6/18-24/39
Plot by S.M. date 12/1940 checked by date 12/1940
Computations by date checked by date
Sheet 5 of 11 sheets

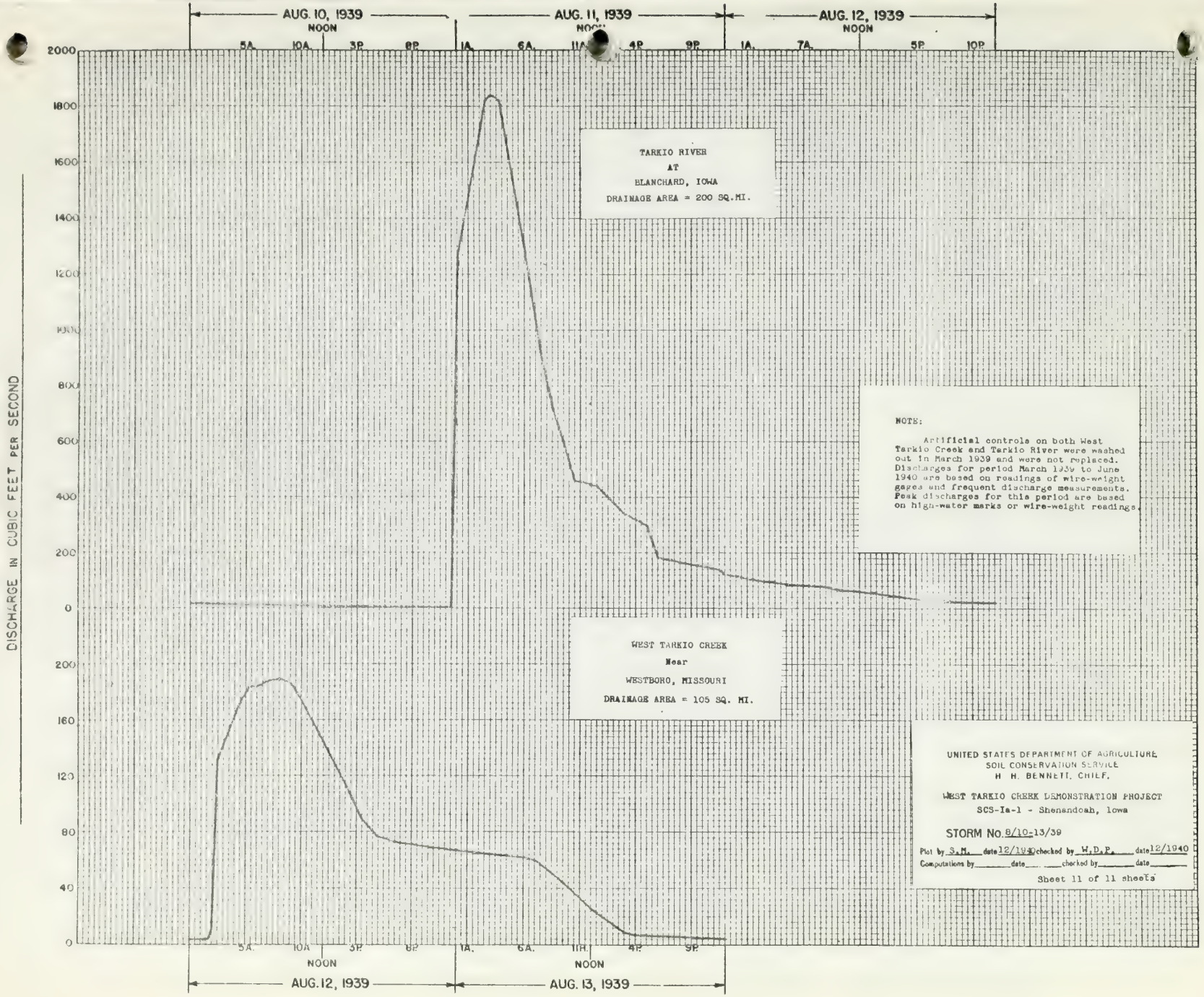

JUNE 21, 1939
JUNE 22, 1939
JUNE 23, 1939
JUNE 24, 1939
NOON
5A. 10A. 3P. 8P. 1A. 6A. 11A. 4P. 9P. 2A. 7A. 5P. 10P.
DISCHARGE IN CUBIC FEET PER SECOND
2800
2400
2000
1600
1200
800
400
0
3200
TARKIO RIVER
AT
BLANCHARD, IOWA
DRAINAGE AREA = 200 SQ. MI.
WEST TARKIO CREEK
Near
WESTBORO, MISSOURI
DRAINAGE AREA = 105 SQ. MI.
NOTE:
Artificial controls on both West Tarkio Creek and Tarkio River were washed out in March 1939 and were not replaced. Discharges for period March 1939 to June 1940 are based on readings of wire-weight gages and frequent discharge measurements. Peak discharges for this period are based on high-water marks or wire-weight readings.
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.
WEST TARKIO CREEK DEMONSTRATION PROJECT
SCS-Ia-1 - Shenandoah, Iowa
STORM No. 6/18-24/39
Plot by S.M. date 12/1940 checked by W.D.P. date 12/1940
Computations by _____ date _____ checked by _____ date _____
Sheet 6 of 11 sheets

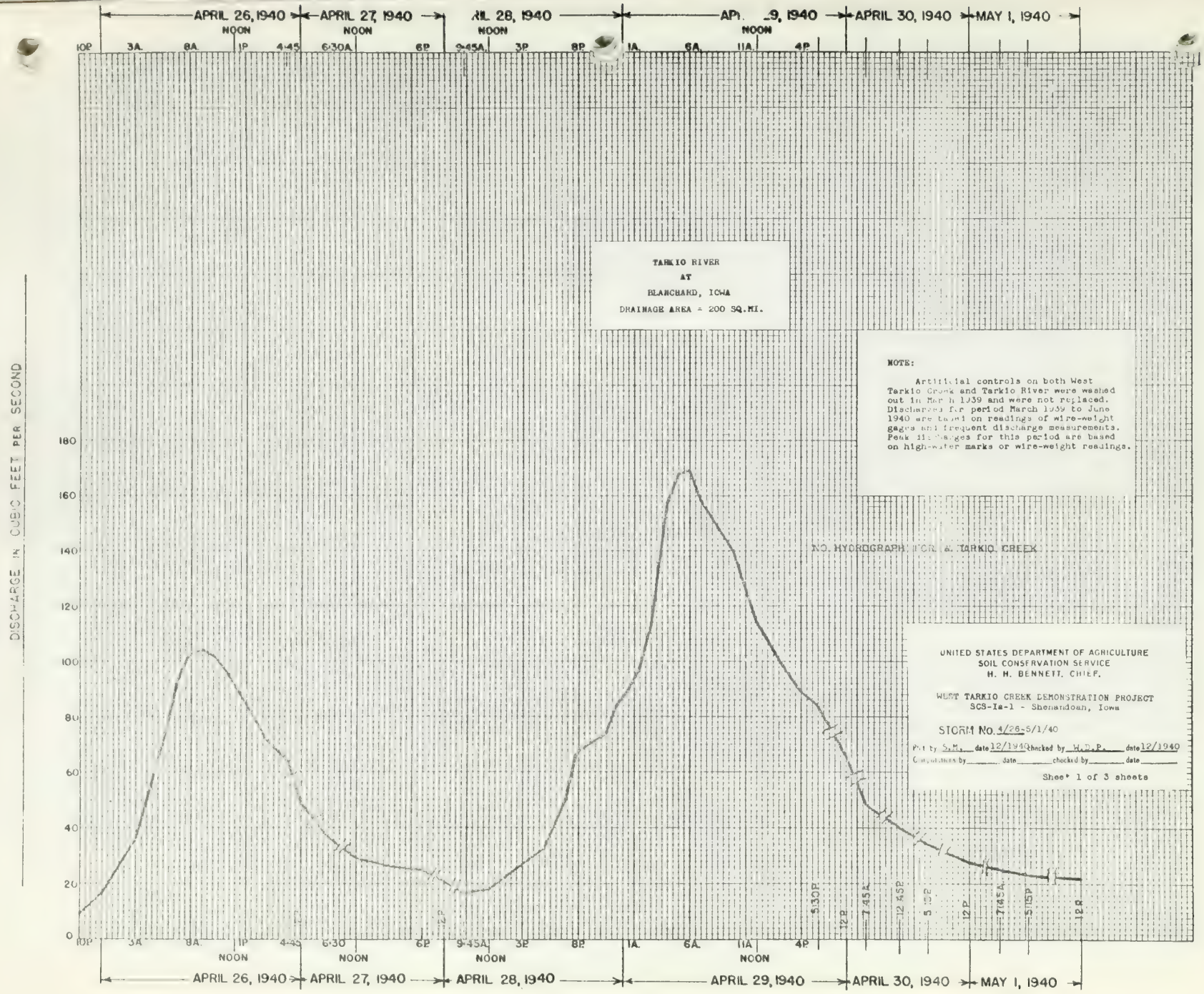

JUNE 25, 1939
JUNE 26, 1939
NOON
5A. 10A. 3P. 8P. 1A. 6A. 11A. 4P. 9P.
DISCHARGE IN CUBIC FEET PER SECOND
600 500 400 300 200 100 0
180 160 140 120 100 80 60 40 20 0
TARKIO RIVER
AT
BLANCHARD, IOWA
DRAINAGE AREA = 200 SQ. MI.
WEST TARKIO CREEK
NEAR
WESTBORO, MO.
DRAINAGE AREA = 105 SQ. MI.
NOTE:
Artificial controls on both West Tarkio Creek and Tarkio River were washed out in March 1939 and were not replaced. Discharges for period March 1939 to June 1940 are based on readings of wire-weight gages and frequent discharge measurements. Peak discharges for this period are based on high-water marks or wire-weight readings.
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.
WEST TARKIO CREEK DEMONSTRATION PROJECT
SCS-Ia-1 - Shenandoah, Iowa
STORM No. 6/25-26/39
Plot by S.M. date 12/1940 checked by W.D.P. date 12/1940
Computations by ____ date ____ checked by ____ date ____
Sheet 9 of 11 sheets

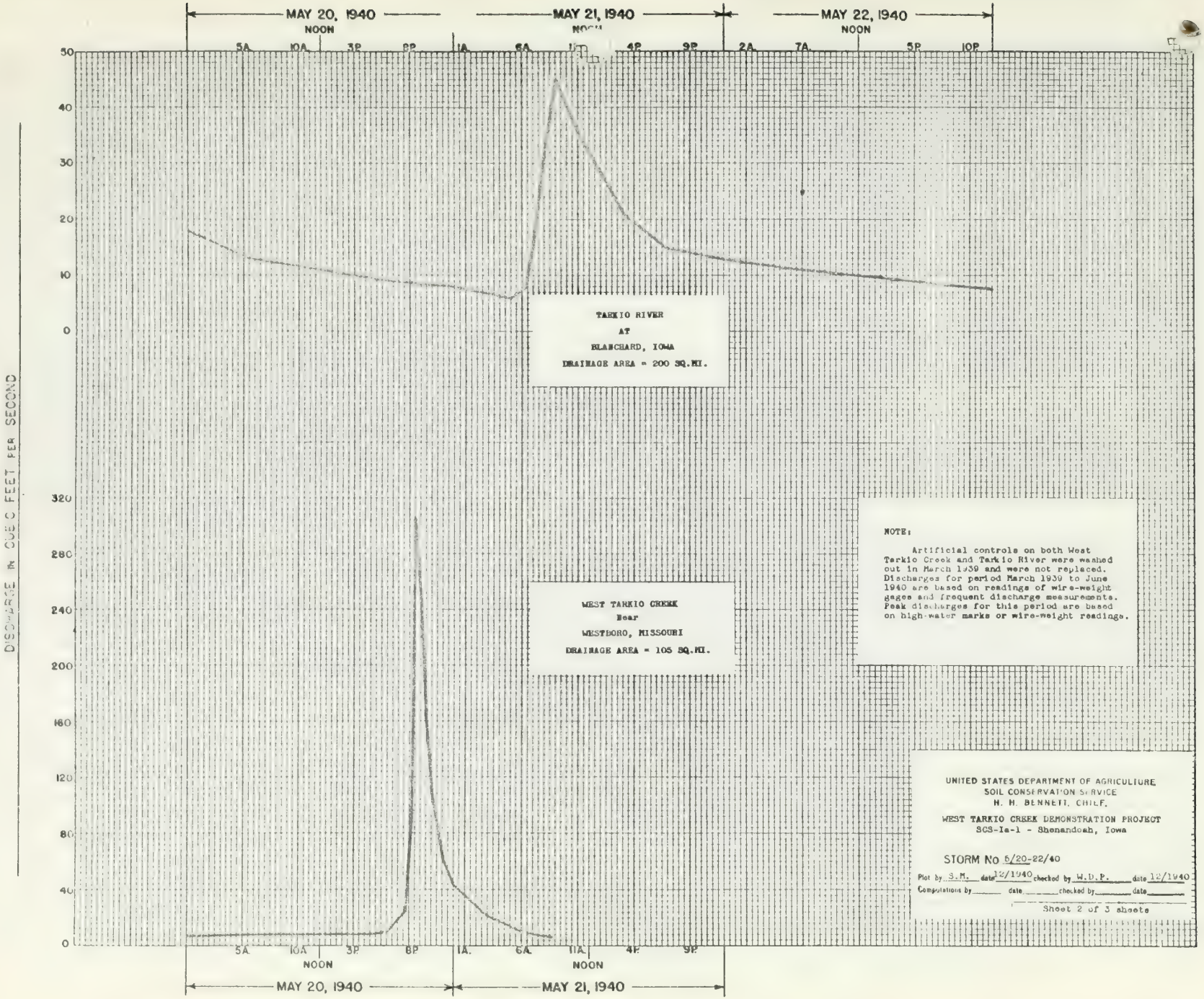

JULY 4, 1939
JULY 5, 1939
JULY 6, 1939
JULY 7, 1939
NOON
5A. 10A. 3P. 8P. 1A. 6A. 11A. 4P. 9P. 2A. 7A. 5P. 10P. 3A. 8A.
DISCHARGE IN CUBIC FEET PER SECOND
3600
3200
2800
2400
2000
1600
1200
800
400
0
TARKIO RIVER
AT
BLANCHARD, IOWA
DRAINAGE AREA = 200 SQ.MI.
NOTE:
Artificial controls on both West Tarkio Creek and Tarkio River were washed out in March 1939 and were not replaced. Discharges for period March 1939 to June 1940 are based on readings of wire-weight gages and frequent discharge measurements. Peak discharges for this period are based on high-water marks or wire-weight readings.
WEST TARKIO CREEK
Near
WESTBORO, MISSOURI
DRAINAGE AREA = 105 SQ.MI.
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.
WEST TARKIO CREEK DEMONSTRATION PROJECT
SCS-Ia-1 - Shenandoah, Iowa
STORM No 7/4-7/39
Plot by S.M. date 12/1940 checked by W.D.P. date 12/1940
Computations by date checked by date
Sheet 8 of 11 sheets

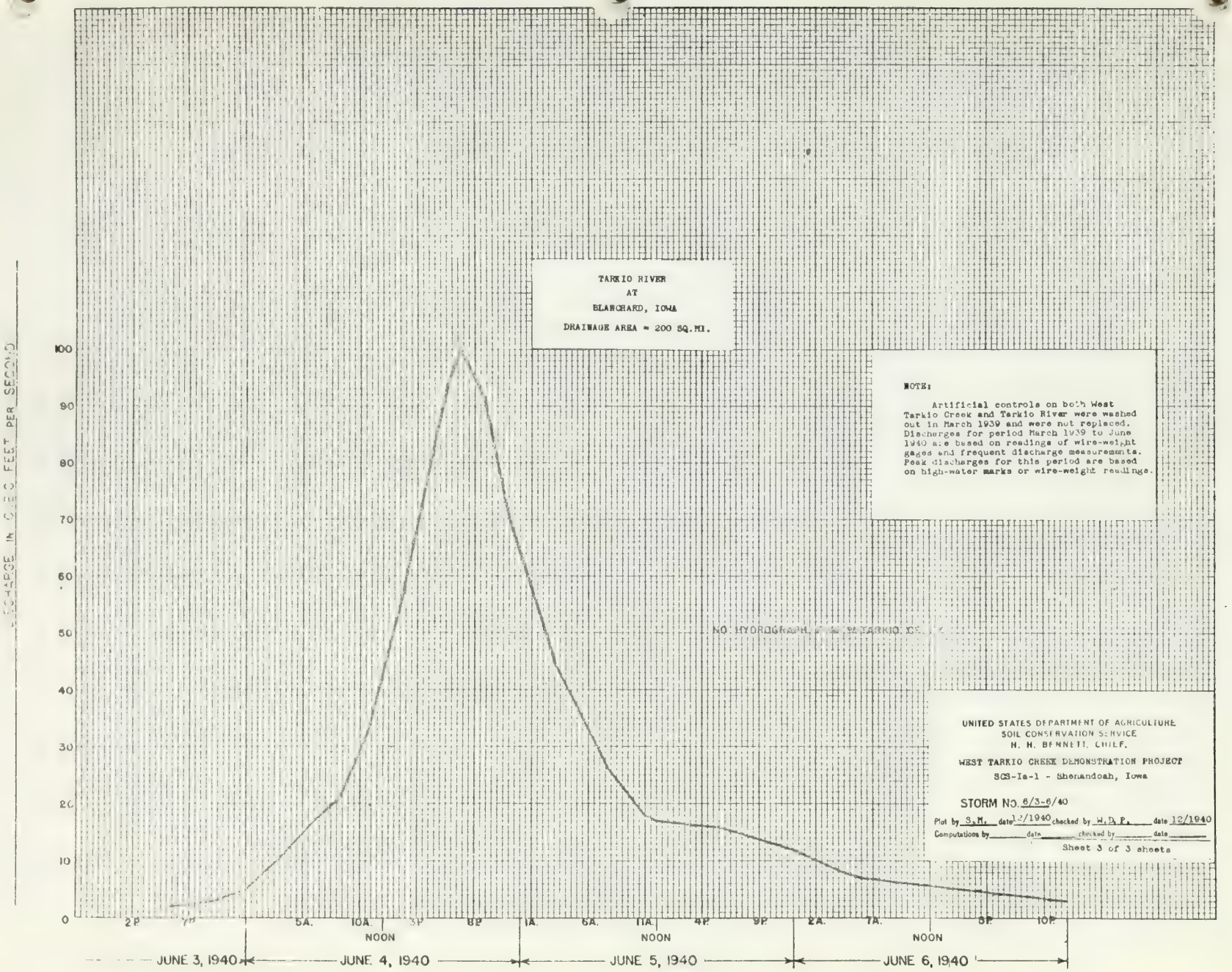

JULY 28, 1939
JULY 29, 1939
NOON
5A
10A
3P
8P
1A
5A
11A
4P
9P
DISCHARGE IN CUBIC FEET PER SECOND
500
450
400
350
300
250
200
150
100
50
0
TARKIO RIVER
AT
BLANCHARD, IOWA
DRAINAGE AREA = 200 SQ. MI.
WEST TARKIO CREEK
Near
WESTBORO, MISSOURI
DRAINAGE AREA = 105 SQ. MI.
NOTE:
Artificial controls on both West Tarkio Creek and Tarkio River were washed out in March 1939 and were not replaced. Discharges for period March 1939 to June 1940 are based on readings of wire-weight gages and frequent discharge measurements. Peak discharges for this period are based on high-water marks or wire-weight readings.
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.
WEST TARKIO CREEK DEMONSTRATION PROJECT
SCS-Ia-1 - SHENANDOAH, IOWA
STORM No. 7/28-29/39
Plot by S.M. date 12/1940 checked by W.D.P. date 12/1940
Computations by date checked by date
Sheet 9 of 11 sheets


AUG. 7, 1939
AUG. 8, 1939
AUG. 9, 1939
NOON
3A. 10A. 3P. 8P. 1A. 6A. 11A. 4P. 9P. 2A. 7A. 5P. 10P.
DISCHARGE IN CUBIC FEET PER SECOND
TARKIO RIVER
AT
BLANCHARD, IOWA
DRAINAGE AREA = 200 SQ. MI.
WEST TARKIO CREEK
Near
WESTBORO, MISSOURI
DRAINAGE AREA = 105 SQ.MI.
NOTE:
Artificial controls on both West Tarkio Creek and Tarkio River were washed out in March 1939 and were not replaced. Discharges for period March 1939 to June 1940 are based on readings of wire-weight gages and frequent discharge measurements. Peak discharges for this period are based on high-water marks or wire-weight readings.
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.
WEST TARKIO CREEK DEMONSTRATION PROJECT
SCS-Ia-1 - Shenandoah, Iowa
STORM No. 8/7-9/39
Plot by S.M. date 12/1940 Checked by W.D.P. date 12/1940
Computations by date Checked by date
Sheet 10 of 11 sheets


AUG. 10, 1939
AUG. 11, 1939
AUG. 12, 1939
NOON
5A. 10A. 3P. 8P. 1A. 6A. 11A. 4P. 9P. 1A. 7A. 5P. 10P.
DISCHARGE IN CUBIC FEET PER SECOND
2000
1800
1600
1400
1200
1000
800
600
400
200
0
200
160
120
80
40
0
TARKIO RIVER
AT
BLANCHARD, IOWA
DRAINAGE AREA = 200 SQ. MI.
NOTE:
Artificial controls on both West Tarkio Creek and Tarkio River were washed out in March 1939 and were not replaced. Discharges for period March 1939 to June 1940 are based on readings of wire-weight gages and frequent discharge measurements. Peak discharges for this period are based on high-water marks or wire-weight readings.
WEST TARKIO CREEK
Near
WESTBORO, MISSOURI
DRAINAGE AREA = 105 SQ. MI.
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.
WEST TARKIO CREEK DEMONSTRATION PROJECT
SCS-Ia-1 - Shenandoah, Iowa
STORM No. 8/10-13/39
Plot by S.M. date 12/194 checked by W.D.P. date 12/1940
Computations by date checked by date
Sheet 11 of 11 sheets
5A. 10A. 3P. 8P. 1A. 6A. 11A. 4P. 9P.
NOON
NOON
AUG. 12, 1939
AUG. 13, 1939


APRIL 26, 1940
APRIL 27, 1940
APRIL 28, 1940
APRIL 29, 1940
APRIL 30, 1940
MAY 1, 1940
NOON
10P
3A
8A
1P
4:45
6:30A
6P
9:45A
3P
8P
1A
6A
11A
4P
DISCHARGE IN CUBIC FEET PER SECOND
180
160
140
120
100
80
60
40
20
0
5:30P
12P
7:45A
12:45P
5:15P
7:45A
5:15P
12P
TARKIO RIVER
AT
BLANCHARD, IOWA
DRAINAGE AREA = 200 SQ.MI.
NOTE:
Artificial controls on both West Tarkio Creek and Tarkio River were washed out in March 1939 and were not replaced. Discharges for period March 1939 to June 1940 are based on readings of wire-weight gages and frequent discharge measurements. Peak discharges for this period are based on high-water marks or wire-weight readings.
NO. HYDROGRAPH NOR. 6. TARKIO CREEK
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.
WEST TARKIO CREEK DEMONSTRATION PROJECT
SCS-Ia-1 - Shenandoah, Iowa
STORM No. 4/26-5/1/40
Plot by S.M. date 12/1940 checked by H.D.P. date 12/1940
Computations by date checked by date
Sheet 1 of 3 sheets


MAY 20, 1940
MAY 21, 1940
MAY 22, 1940
NOON
5A
10A
3P
8P
1A
6A
11A
4P
9P
2A
7A
5P
10P
DISCHARGE IN CUBIC FEET PER SECOND
50
40
30
20
10
0
320
280
240
200
160
120
80
40
0
TARKIO RIVER
AT
BLANCHARD, IOWA
DRAINAGE AREA = 200 SQ.MI.
WEST TARKIO CREEK
Near
WESTBORO, MISSOURI
DRAINAGE AREA = 105 SQ.MI.
NOTE:
Artificial controls on both West Tarkio Creek and Tarkio River were washed out in March 1939 and were not replaced. Discharges for period March 1939 to June 1940 are based on readings of wire-weight gages and frequent discharge measurements. Peak discharges for this period are based on high-water marks or wire-weight readings.
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.
WEST TARKIO CREEK DEMONSTRATION PROJECT
SCS-Ia-1 - Shenandoah, Iowa
STORM No 5/20-22/40
Plot by S.M. date 12/1940 checked by W.D.P. date 12/1940
Computations by date checked by date
Sheet 2 of 3 sheets


TARKIO RIVER
AT
BLANCHARD, IOWA
DRAINAGE AREA = 200 SQ.MI.
NOTE:
Artificial controls on both West Tarkio Creek and Tarkio River were washed out in March 1939 and were not replaced. Discharges for period March 1939 to June 1940 are based on readings of wire-weight gages and frequent discharge measurements. Peak discharges for this period are based on high-water marks or wire-weight readings.
DISCHARGE IN CUBIC FEET PER SECOND
100
90
80
70
60
50
40
30
20
10
0
2P
5A.
10A.
NOON
8P
1A.
6A.
11A.
NOON
4P.
9P.
2A.
7A.
NOON
8P.
10P.
JUNE 3, 1940
JUNE 4, 1940
JUNE 5, 1940
JUNE 6, 1940
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.
WEST TARKIO CREEK DEMONSTRATION PROJECT
SCS-Ia-1 - Shenandoah, Iowa
STORM NO. 6/3-6/40
Plot by S.M. date 12/1940 checked by W.D.P. date 12/1940
Computations by date checked by date
Sheet 3 of 3 sheets

APPENDIX A

CONSERVATION SURVEY

OF

TARKIO RIVER WATERSHED

Table #1

Date of Survey
1934-1935

WEST TARKIO CREEK PROJECT - IOWA-1
ACREAGE IN EACH EROSION CLASS, BY SOIL TYPES AND SLOPE CLASSES
ENTIRE PROJECT

SOIL TYPES	SLOPE	EROSION CLASSES 1 ACRES	2 ACRES	3 ACRES	33 ACRES	4 ACRES	5 ACRES	ENTIRE PROJECT ACRES
2	A	312.0	2,927.0	1,286.0	409.0	75.0		5,009.0
MARSHALL	B	4,189.0	1,556.0	4,476.0	5,606.0	5,593.0		21,420.0
SILT	BB	70.0	391.0	3,256.0	15,045.0	15,447.0	2.0	34,211.0
LOAM	C	1.0	4.0	1.0	53.0	785.0		844.0
	D			2.0	1.0	28.0	2.0	33.0
	Total	4,572.0	4,878.0	9,021.0	21,114.0	21,928.0	4.0	61,517.0
3	A	12.0						12.0
COLLUVIAL	B		1.0		1.0	1.0		3.0
DEPOSITS	BB							
(BASE OF SLOPE)	C							
	D							
	Total	12.0	1.0		1.0	1.0		15.0
4	A	11,155.0						11,155.0
WABASH	B					8.0		8.0
SILT	BB			16.0	2.0	2.0		20.0
LOAM	C							
	D							
	Total	11,155.0		16.0	2.0	10.0		11,183.0
6	A	393.0						393.0
WABASH	B							
SILT	BB							
CLAY	C							
LOAM	D							
	Total	393.0						393.0
7	A	15,000.0	1.0	2.0		17.0		15,020.0
WABASH	B	25.0		1.0				26.0
SILT	BB	2.0		20.0	20.0			42.0
LOAM	C							
(COLLUVIAL PHASE)	D							
	Total	15,027.0	1.0	23.0	20.0	17.0		15,088.0
10	A	8.0				1.0		9.0
SHELBY	B	4.0	18.0	53.0	102.0	191.0		368.0
SILT	BB	7.0	155.0	775.0	3,784.0	3,522.0		8,243.0
LOAM	C	3.0	4.0	47.0	121.0	292.0		467.0
	D		2.0		6.0	27.0		35.0
	Total	22.0	179.0	875.0	4,813.0	4,033.0		9,122.0
11	A	2.0		1.0		15.0		18.0
SHELBY	B		4.0	1.0	17.0	114.0		139.0
LOAM	BB	8.0	7.0	39.0	367.0	1,591.0		2,012.0
	C		2.0	11.0	22.0	602.0		637.0
	D					70.0		70.0
	Total	10.0	13.0	52.0	406.0	2,392.0		2,873.0
12	A				2.0			2.0
SHELBY	B	1.0			1.0	5.0		7.0
LOAM	BB			1.0	7.0	67.0		75.0
(ERODED PHASE)	C					18.0		18.0
	D							
	Total	1.0		1.0	10.0	90.0		102.0
13	A							
SHELBY	B							
CLAY	BB				3.0	6.0		9.0
(BLACK)	C					2.0		2.0
	D							
	Total				3.0	8.0		11.0
14	A	1.0						1.0
PAGE	B		3.0	2.0	1.0	4.0		10.0
SILT	BB		26.0	42.0	140.0	61.0		269.0
LOAM	C					10.0		10.0
(FRIABLE SUBSOIL)	D							
	Total	1.0	29.0	44.0	141.0	75.0		290.0
20	A	223.0						223.0
JUDSON	B	37.0						37.0
SILT	BB					3.0		3.0
LOAM	C							
	D							
	Total	260.0				3.0		263.0
21	A		7.0					7.0
BREMER	B	1.0				4.0		5.0
SILTY	BB							
CLAY	C							
LOAM	D							
	Total	1.0	7.0			4.0		12.0
	Totals	31,454.0	5,108.0	10,032.0	25,710.0	23,561.0	[illegible]	100,869.0

Table #2
Date of Survey
1934-1935

WEST TARKIO CREEK PROJECT - IOWA-1
ACREAGE IN EACH EROSION CLASS, BY SOIL TYPES AND SLOPE CLASSES
CROP LAND

SOIL TYPES	SLOPE	EROSION CLASSES 1 ACRES	2 ACRES	3 ACRES	33 ACRES	4 ACRES	5 ACRES	ALL CROP LAND ACRES
2	A	311.0	2,922.0	1,281.0	409.0	74.0		4,997.0
MARSHALL	B	4,076.0	1,516.0	4,427.0	5,535.0	5,522.0		21,076.0
SILT	BB	46.0	372.0	3,180.0	14,882.0	15,218.0	2.0	33,700.0
LOAM	C	1.0	4.0	1.0	53.0	757.0		816.0
	D			2.0	1.0	19.0	2.0	24.0
	Total	4,434.0	4,814.0	8,891.0	20,880.0	21,590.0	4.0	60,613.0
3	A	12.0						12.0
COLLUVIAL DEPOSITS	B		1.0		1.0	1.0		3.0
(BASE OF SLOPE)	BB							
	C							
	D							
	Total	12.0	1.0		1.0	1.0		15.0
4	A	9,148.0						9,148.0
WABASH	B					7.0		7.0
SILT	BB			1.0	2.0	2.0		5.0
LOAM	C							
	D							
	Total	9,148.0		1.0	2.0	9.0		9,160.0
6	A	356.0						356.0
WABASH	B							
SILT	BB							
CLAY	C							
LOAM	D							
	Total	356.0						356.0
7	A	13,804.0	1.0	2.0				13,807.0
WABASH	B	23.0		1.0		13.0		37.0
SILT	BB	2.0		20.0	20.0			42.0
LOAM	C							
(COLLUVIAL PHASE)	D							
	Total	13,829.0	1.0	23.0	20.0	13.0		13,886.0
10	A	4.0				1.0		5.0
SHELBY	B	3.0	11.0	48.0	98.0	180.0		340.0
SILT	BB	7.0	144.0	685.0	3,617.0	3,429.0		7,882.0
LOAM	C	3.0	3.0	44.0	97.0	274.0		21.0
	D		2.0		6.0	27.0		135.0
	Total	17.0	160.0	777.0	3,818.0	3,911.0		8,683.0
11	A			1.0		15.0		16.0
SHELBY	B		4.0	1.0	17.0	108.0		130.0
LOAM	BB	8.0	4.0	39.0	348.0	1,530.0		1,929.0
	C		2.0	11.0	16.0	530.0		559.0
	D					64.0		64.0
	Total	8.0	10.0	52.0	381.0	2,247.0		2,698.0
12	A				2.0			2.0
SHELBY LOAM	B	1.0			1.0	5.0		7.0
(ERODED PHASE)	BB			1.0	7.0	67.0		75.0
	C					18.0		18.0
	D							
	Total	1.0		1.0	10.0	90.0		102.0
13	A							
SHELBY	B							
CLAY	BB				3.0	6.0		9.0
(BLACK)	C					2.0		2.0
	D							
	Total				3.0	8.0		11.0
14	A	1.0						1.0
PAGE	B		3.0	2.0	1.0	4.0		10.0
SILT	BB		26.0	42.0	137.0	61.0		266.0
LOAM	C					10.0		10.0
(FRIABLE SUBSOIL)	D							
	Total	1.0	29.0	44.0	138.0	75.0		287.0
20	A	165.0						165.0
JUDSON	B	29.0						29.0
SILT	BB					3.0		3.0
LOAM	C							
	D							
	Total	194.0				3.0		197.0
21	A		7.0					7.0
BREMER	B	1.0				4.0		5.0
SILTY	BB							
CLAY	C							
LOAM	D							
	Total	1.0	7.0			4.0		12.0
	Totals	28,001.0	5,022.0	[illegible]	25,253.0	27,951.0	4.0	[illegible]

Table #3

WEST TARKIO CREEK PROJECT - IOWA-1

Date of Survey
1934-1935

ACREAGE IN EACH EROSION CLASS, BY SOIL TYPES AND SLOPE CLASSES
IDLE LAND

SOIL TYPES	SLOPES	EROSION CLASSES 1 ACRES	2 ACRES	3 ACRES	33 ACRES	4 ACRES	5 ACRES	ALL IDLE LAND ACRES
2	A							
MARSHALL	B			2.0				2.0
SILT	BB			2.0				2.0
LOAM	C							
	D							
	Total			4.0				4.0
	Totals			4.0				4.0

Table #4

ACREAGE IN EACH EROSION CLASS, BY SOIL TYPES AND SLOPE CLASSES
PASTURE

SOIL TYPES	SLOPES	EROSION CLASSES 1 ACRES	2 ACRES	3 ACRES	33 ACRES	4 ACRES	5 ACRES	ALL PASTURE LAND ACRES
2	A	1.0	5.0	5.0		1.0		12.0
MARSHALL	B	112.0	40.0	46.0	71.0	71.0		340.0
SILT	BB	24.0	19.0	68.0	163.0	229.0		503.0
LOAM	C					28.0		28.0
	D					9.0		9.0
	Total	137.0	64.0	119.0	234.0	338.0		892.0
4	A	2,007.0						2,007.0
WABASH	B					1.0		1.0
SILT LOAM	BB			15.0				15.0
	C							
	D							
	Total	2,007.0		15.0		1.0		2,023.0
6	A	37.0						37.0
WABASH	B							
SILT	BB							
CLAY	C							
LOAM	D							
	Total	37.0						37.0
7	A	1,195.0						1,195.0
WABASH	B	2.0				4.0		6.0
SILT	BB							
LOAM	C							
(COLLUVIAL PHASE)	D							
	Total	1,197.0				4.0		1,201.0
10	A	4.0						4.0
SHELBY	B	1.0	7.0	5.0	4.0	11.0		28.0
SILT	BB		11.0	90.0	167.0	93.0		361.0
LOAM	C		1.0	3.0	24.0	18.0		46.0
	D							
	Total	5.0	19.0	98.0	195.0	122.0		439.0
11	A	2.0						2.0
SHELBY	B					6.0		6.0
LOAM	BB		3.0		19.0	61.0		83.0
	C				6.0	72.0		78.0
	D					6.0		6.0
	Total	2.0	3.0		25.0	145.0		175.0
14	A							
PAGE	B							
SILT	BB				3.0			3.0
LOAM	C							
(FRIABLE SUBSOIL)	D							
	Total				3.0			3.0
20	A	58.0						58.0
JUDSON	B	8.0						8.0
SILT	BB							
LOAM	C							
	D							
	Total	66.0						66.0
	Totals	3,451.0	86.0	232.0	457.0	510.0		4,836.0

Table #5

ACREAGE IN EACH EROSION CLASS, BY SOIL TYPES AND SLOPE CLASSES
WOODLAND

SOIL TYPES	SLOPES	EROSION CLASSES 1 ACRES	2 ACRES	3 ACRES	33 ACRES	4 ACRES	5 ACRES	ALL WOODLAND ACRES
2	A							
MARSHALL	B	1.0		1.0				2.0
SILT	BB			6.0				6.0
LOAM	C							
	D							
	Total	1.0		7.0				8.0
7	A	1.0						1.0
WABASH	B							
SILT	BB							
LOAM	C							
(COLLUVIAL PHASE)	D							
	Total	1.0						1.0
	Totals	2.0		7.0				9.0

Table #8.

Date of Survey 1934-1935

WEST TARKIO CREEK PROJECT, IOWA-1

RELATION OF EROSION TO LAND USE, EXPRESSED IN ACRES
ENTIRE PROJECT

LAND USE CLASS	NO APPARENT EROSION 1	SHEET EROSION SLIGHT 2	MODERATE 3	MODERATE TO SEVERE 33	SEVERE 4	VERY SEVERE 5	ENTIRE PROJECT
	ACRES	ACRES	ACRES	ACRES	ACRES	ACRES	ACRES
Crop land	28,001.0	5,022.0	9,789.0	25,253.0	27,951.0	4.0	96,020.0
Idle land			4.0				4.0
Pasture	3,451.0	86.0	232.0	457.0	610.0		4,836.0
Woodland	2.0		7.0				9.0
Totals	31,454.0	5,108.0	10,032.0	25,710.0	28,561.0	4.0	100,869.0

Table #9.

Date of Survey 1934-1935

PROPORTIONATE EXTENT OF LAND USE CLASS IN EACH CLASS OF EROSION
ENTIRE PROJECT

LAND USE CLASS	NO APPARENT EROSION 1	SHEET EROSION SLIGHT 2	MODERATE 3	MODERATE TO SEVERE 33	SEVERE 4	VERY SEVERE 5	ENTIRE PROJECT
	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Crop land	89.0	98.3	97.6	98.2	97.9	100.0	95.2
Idle land			*				*
Pasture	11.0	1.7	2.3	1.8	2.1		4.8
Woodland	*		0.1				*
Totals, percent	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Area in acres	31,454.0	5,108.0	10,032.0	25,710.0	28,561.0	4.0	100,869.0

* Less than 0.05 of 1%.

Table #10.

Date of Survey 1934-1935

WEST TARKIO CREEK PROJECT, IOWA-1

PROPORTIONATE EXTENT OF EROSION CLASSES IN EACH LAND USE CLASS
ENTIRE PROJECT

EROSION CLASS	CROP LAND Percent	IDLE LAND Percent	PASTURE Percent	FOREST Percent	ENTIRE PROJECT Percent
No apparent erosion -1	29.2		71.4	22.2	31.2
Sheet erosion					
Slight -2	5.2		1.8		5.1
Moderate -3	10.2	100.0	4.8	77.8	9.9
Moderate to Severe -33	26.3		9.4		25.5
Severe -4	29.1		12.6		28.3
Very severe -5	*				*
Totals, percent	100.0	100.0	100.0	100.0	100.0
Area in acres	96,020.0	4.0	4,836.0	9.0	100,869.0

* Less than 0.05 of 1%.

RELATION OF EROSION TO SLOPE, EXPRESSED IN ACRES
ENTIRE PROJECT

#11.

SLOPE CLASS AND LIMITS	NO APPARENT EROSION 1	SHEET EROSION SLIGHT 2	MODERATE 3	MODERATE TO SEVERE 33	SEVERE 4	VERY SEVERE 5	ENTIRE PROJECT
	ACRES	ACRES	ACRES	ACRES	ACRES	ACRES	ACRES
A 0-3%	27,106.0	2,935.0	1,289.0	411.0	108.0		31,849.0
B 3-7%	4,257.0	1,582.0	4,533.0	5,728.0	5,920.0		22,020.0
BB 7-12%	87.0	579.0	4,149.0	19,368.0	20,599.0	2.0	44,884.0
C 12-15%	4.0	10.0	59.0	196.0	1,709.0		1,978.0
D over 15%		2.0	2.0	7.0	125.0	2.0	138.0
Total	31,454.0	5,108.0	10,032.0	25,710.0	28,561.0	4.0	100,869.0

Table #12.

Date of Survey 1934-1935

WEST TARKIO CREEK PROJECT, IOWA-1

PROPORTIONATE EXTENT OF SLOPE CLASSES IN EACH EROSION CLASS
ENTIRE PROJECT

SLOPE CLASS AND LIMITS	NO APPARENT EROSION 1	SHEET EROSION SLIGHT 2	MODERATE 3	MODERATE TO SEVERE 33	SEVERE 4	VERY SEVERE 5	ENTIRE PROJECT
	Percent	Percent	Percent	Percent	Percent	Percent	Percent
A 0-3%	86.2	57.5	12.8	1.6	0.4		31.6
B 3-7%	13.5	31.0	45.2	22.3	20.7		21.8
BB 7-12%	0.3	11.3	41.4	75.3	72.5	50.0	44.5
C 12-15%	*	0.2	0.6	0.8	6.0		2.0
D over 15%		*	*	*	0.4	50.0	0.1
Totals, percent	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Area in acres	31,454.0	5,108.0	10,032.0	25,710.0	28,561.0	4.0	100,869.0

* Less than 0.05 of 1%

13.

PROPORTIONATE EXTENT OF EROSION CLASSES IN EACH SLOPE CLASS
ENTIRE PROJECT

EROSION CLASS	SLOPE CLASSES AND LIMITS A 0-3%	B 3-7%	BB 7-12%	C 12-15%	D Over 15%	ENTIRE PROJECT
	Percent	Percent	Percent	Percent	Percent	Percent
No apparent erosion -1	85.1	19.3	0.2	0.2		31.2
Sheet erosion						
Slight -2	9.2	7.2	1.3	0.5	1.4	5.1
Moderate -3	4.0	20.6	9.2	3.0	1.4	9.9
Moderate to severe -33	1.3	26.0	43.2	9.9	5.1	25.5
Severe -4	0.3	26.9	46.1	86.4	90.7	28.3
Very severe -5			*		1.4	*
Totals, percent	100.0	100.0	100.0	100.0	100.0	100.0
Area in acres	31,849.0	22,020.0	44,884.0	1,978.0	138.0	100,869.0

* Less than 0.05 of 1%

Table #14.

Date of Survey 1934-1935

WEST TARKIO CREEK PROJECT, IOWA-1
RELATION OF EROSION TO SOIL TYPE, EXPRESSED IN ACRES
ENTIRE PROJECT

SOIL TYPE	NO APPARENT EROSION 1	SHEET EROSION SLIGHT 2	MODERATE 3	MODERATE TO SEVERE 33	SEVERE 4	VERY SEVERE 5	ENTIRE PROJECT
	ACRES	ACRES	ACRES	ACRES	ACRES	ACRES	ACRES
Marshall silt loam	4,572.0	4,878.0	9,021.0	21,114.0	21,928.0	4.0	61,517.0
Colluvial deposits (base of slope)	12.0	1.0		1.0	1.0		15.0
Wabash silt loam	11,155.0		16.0	2.0	10.0		11,183.0
Wabash silty clay loam	393.0						393.0
Wabash silt loam (colluvial phase)	15,027.0	1.0	23.0	20.0	17.0		15,088.0
Shelby silt loam	22.0	179.0	875.0	4,013.0	4,033.0		9,122.0
Shelby loam	10.0	13.0	52.0	406.0	2,392.0		2,873.0
Shelby loam (eroded phase)	1.0		1.0	10.0	90.0		102.0
Shelby clay (black)				3.0	8.0		11.0
Page silt loam (friable subsoil)	1.0	29.0	44.0	141.0	75.0		290.0
Judson silt loam	260.0				3.0		263.0
Bremer silty clay loam	1.0	7.0			4.0		12.0
TOTALS	31,454.0	5,108.0	10,032.0	25,710.0	28,561.0	4.0	100,869.0

Table #15.

Date of Survey 1934-1935

WEST TARKIO CREEK PROJECT, IOWA-1

PROPORTIONATE EXTENT OF SOIL TYPES IN EACH EROSION CLASS
ENTIRE PROJECT

SOIL TYPE	NO APPARENT EROSION 1	SHEET EROSION SLIGHT 2	MODERATE 3	MODERATE TO SEVERE 33	SEVERE 4	VERY SEVERE 5	ENTIRE PROJECT
	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Marshall silt loam	14.5	95.5	89.9	82.2	76.8	100.0	61.0
Colluvial deposits (base of slope)	*	*		*	*		*
Wabash silt loam	35.5		0.2	*	*		11.1
Wabash silty clay loam	1.2						0.4
Wabash silt loam (colluvial phase)	47.9	*	0.2	0.1	0.1		15.0
Shelby silt loam	0.1	3.5	8.8	15.6	14.2		9.0
Shelby loam	*	0.3	0.5	1.6	8.3		2.8
Shelby loam (eroded phase)	*		*	*	0.3		0.1
Shelby clay (black)				*	*		*
Page silt loam (friable subsoil)	*	0.6	0.4	0.5	0.3		0.3
Judson silt loam	0.8				*		0.3
Bremer silty clay loam	*	0.1			*		*
TOTALS, PERCENT	100.0	100.0	100.0	100.0	100.0	100.0	100.0
AREA IN ACRES	31,454.0	5,108.0	10,032.0	25,710.0	28,561.0	4.0	100,869.0

* Less than 0.05 of 1%.

Table #16.

Date of Survey 1934-1935

WEST TARKIO CREEK PROJECT, IOWA-1
PROPORTIONATE EXTENT OF EROSION CLASSES IN EACH SOIL TYPE
ENTIRE PROJECT

SOIL TYPE	NO APPARENT EROSION 1	SHEET EROSION SLIGHT 2	MODERATE 3	MODERATE TO SEVERE 33	SEVERE 4	VERY SEVERE 5	TOTALS	AREA IN ACRES
	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
Marshall silt loam	7.4	7.9	14.7	34.3	35.7	*	100.0	61,517.0
Colluvial deposits (base of slope)	79.9	6.7		6.7	6.7		100.0	15.0
Wabash silt loam	99.8		0.1	*	0.1		100.0	11,183.0
Wabash silty clay loam	100.0						100.0	393.0
Wabash silt loam (colluvial phase)	99.6	*	0.2	0.1	0.1		100.0	15,088.0
Shelby silt loam	0.2	2.0	9.6	44.0	44.2		100.0	9,122.0
Shelby loam	0.4	0.5	1.8	14.3	83.0		100.0	2,873.0
Shelby loam (eroded phase)	1.0		1.0	9.8	88.2		100.0	102.0
Shelby clay (black)				27.3	72.7		100.0	11.0
Page silt loam (friable subsoil)	*	10.0	15.2	48.8	26.0		100.0	290.0
Judson silt loam	98.9				1.1		100.0	263.0
Bremer silty clay loam	8.3	58.4			33.3		100.0	12.0
ENTIRE PROJECT	31.2	5.1	9.9	25.5	28.3	*	100.0	100,869.0

* Less than 0.05 of 1%.

Table #17.

WEST TARKIO CREEK PROJECT, IOWA-1

RELATION OF LAND USE TO SLOPE, EXPRESSED IN ACRES

ENTIRE PROJECT

Date of Survey 1934-1935.

SLOPE CLASS AND LIMITS	CROP LAND Acres	IDLE LAND Acres	PASTURE Acres	FOREST Acres	ENTIRE PROJECT Acres
A 0-3%	28,516.0		3,315.0	1.0	31,849.0
B 3-7%	21,644.0	2.0	389.0	2.0	22,020.0
BB 7-12%	43,911.0	2.0	965.0	6.0	44,884.0
C 12-15%	1,826.0		152.0		1,978.0
D over 15%	123.0		15.0		138.0
Area in acres	96,020.0	4.0	4,836.0	9.0	100,869.0

Table #18.

Date of Survey 1934-1935

PROPORTIONATE EXTENT OF SLOPE CLASSES IN EACH LAND USE CLASS

ENTIRE PROJECT

SLOPE CLASS AND LIMITS	CROP LAND Percent	IDLE LAND Percent	PASTURE Percent	FOREST Percent	ENTIRE PROJECT Percent
A 0-3%	29.7		68.6	11.1	31.6
B 3-7%	22.5	50.0	8.0	22.2	21.8
BB 7-12%	45.8	50.0	20.0	66.7	44.5
C 12-15%	1.9		3.1		2.0
D over 15%	0.1		0.3		0.1
Totals, percent	100.0	100.0	100.0	100.0	100.0
Area in acres	96,020.0	4.0	4,836.0	9.0	100,869.0

Table #19.

WEST TARKIO CREEK PROJECT, IOWA-1

Date of Survey 1934-1935

PROPORTIONATE EXTENT OF LAND USE CLASSES IN EACH SLOPE CLASS

ENTIRE PROJECT

LAND USE CLASS	SLOPE CLASSES AND LIMITS					ENTIRE PROJECT
	A 0-3%	B 3-7%	BB 7-12%	C 12-15%	D Over 15%	
	Percent	Percent	Percent	Percent	Percent	Percent
Crop land	89.6	98.3	97.9	92.3	89.1	95.2
Idle land		*	*			*
Pasture	10.4	1.7	2.1	7.7	10.9	4.8
Forest	*	*	*			*
Totals, percent	100.0	100.0	100.0	100.0	100.0	100.0
Area in acres	31,849.0	22,020.0	44,884.0	1,978.0	138.0	100,869.0

* Less than 0.05 of 1%.

Table #20.

Date of Survey 1934-1935

WEST TARKIO CREEK PROJECT, IOWA-1
RELATION OF SLOPE TO SOIL TYPE, EXPRESSED IN ACRES
ENTIRE PROJECT

SOIL TYPE	SLOPE CLASSES AND LIMITS					ENTIRE PROJECT
	A 0-3%	B 3-7%	BB 7-12%	C 12-15%	D Over 15%	
	Acres	Acres	Acres	Acres	Acres	Acres
Marshall silt loam	5,009.0	21,420.0	34,211.0	844.0	33.0	61,517.0
Colluvial deposits (base of slope)	12.0	3.0				15.0
Wabash silt loam	11,155.0	8.0	20.0			11,183.0
Wabash silty clay loam	393.0					393.0
Wabash silt loam (colluvial phase)	15,020.0	26.0	42.0			15,088.0
Shelby silt loam	9.0	368.0	8,243.0	467.0	35.0	9,122.0
Shelby loam	18.0	136.0	2,012.0	637.0	70.0	2,873.0
Shelby loam (eroded phase)	2.0	7.0	75.0	18.0		102.0
Shelby clay (black)			9.0	2.0		11.0
Page silt loam (friable subsoil)	1.0	10.0	269.0	10.0		290.0
Judson silt loam	223.0	37.0	3.0			263.0
Bremer silty clay loam	7.0	5.0				12.0
TOTALS	31,849.0	22,020.0	44,884.0	1,978.0	138.0	100,869.0

Table #21.

Date of Survey 1934-1935

WEST TARKIO CREEK PROJECT, IOWA-1
PROPORTIONATE EXTENT OF SOIL TYPES IN EACH SLOPE CLASS
ENTIRE PROJECT

SOIL TYPE	SLOPE CLASSES AND LIMITS					ENTIRE PROJECT
	A 0-3%	B 3-7%	BB 7-12%	C 12-15%	D Over 15%	
	Percent	Percent	Percent	Percent	Percent	Percent
Marshall silt loam	15.7	97.4	76.3	42.7	23.9	61.0
Colluvial deposits (base of slope)	*	*				*
Wabash silt loam	35.0	*	*			11.1
Wabash silty clay loam	1.2					0.4
Wabash silt loam (colluvial phase)	47.3	0.1	0.1			15.0
Shelby silt loam	*	1.7	18.3	23.7	25.4	9.0
Shelby loam	0.1	0.6	4.4	32.2	50.7	2.8
Shelby loam (eroded phase)	*	*	0.2	0.8		0.1
Shelby clay (black)			*	0.1		*
Page silt loam (friable subsoil)	*	*	0.6	0.5		0.3
Judson silt loam	0.7	0.2	*			0.3
Bremer silty clay loam	*	*				*
TOTALS, PERCENT	100.0	100.0	100.0	100.0	100.0	100.0
AREA IN ACRES	31,849.0	22,020.0	44,884.0	1,978.0	138.0	100,869.0

* Less than 0.05 of 1%.

Table #22.

Date of Survey 1934-1935

WEST TARKIO CREEK PROJECT, IOWA-1
PROPORTIONATE EXTENT OF SLOPE CLASSES IN EACH SOIL TYPE
ENTIRE PROJECT

SOIL TYPE	SLOPE CLASSES AND LIMITS					TOTALS Percent	AREA IN ACRES
	A 0-3% Percent	B 3-7% Percent	BB 7-12% Percent	C 12-15% Percent	D Over 15% Percent		
Marshall silt loam	8.1	34.8	55.6	1.4	0.1	100.0	61,517.0
Colluvial deposits (base of slope	80.0	20.0				100.0	15.0
Wabash silt loam	99.7	0.1	0.2			100.0	11,183.0
Wabash silty clay loam	100.0					100.0	393.0
Wabash silt loam (colluvial phase)	99.5	0.2	0.3			100.0	15,088.0
Shelby silt loam	0.1	4.0	90.4	5.1	0.4	100.0	9,122.0
Shelby loam	0.6	4.7	70.1	22.2	2.4	100.0	2,873.0
Shelby loam (eroded phase)	2.0	6.9	73.5	17.6		100.0	102.0
Shelby clay (black)			81.8	18.2		100.0	11.0
Page silt loam (friable subsoil)	*	3.5	93.0	3.5		100.0	290.0
Judson silt loam	84.8	14.1	1.1			100.0	263.0
Bremer silty clay loam	58.3	41.7				100.0	12.0
ENTIRE PROJECT	31.6	21.8	44.5	2.0	0.1	100.0	100,869.0

* Less than 0.05 of 1%.

Table #23.

Date of Survey 1934-1935

WEST TARKIO CREEK PROJECT, IOWA-1
RELATION OF LAND USE TO SOIL TYPE, EXPRESSED IN ACRES
ENTIRE PROJECT

SOIL TYPE	CROP LAND ACRES	IDLE LAND ACRES	PASTURE ACRES	WOODLAND ACRES	ENTIRE PROJECT ACRES
Marshall silt loam	60,613.0	4.0	892.0	8.0	61,517.0
Colluvial deposits (base of slope)	15.0				15.0
Wabash silt loam	9,160.0		2,023.0		11,183.0
Wabash silty clay loam	356.0		37.0		393.0
Wabash silt loam (colluvial phase)	13,886.0		1,201.0	1.0	15,088.0
Shelby silt loam	8,683.0		439.0		9,122.0
Shelby loam	2,698.0		175.0		2,873.0
Shelby loam (eroded phase)	102.0				102.0
Shelby clay (black)	11.0				11.0
Page silt loam (friable subsoil)	287.0		3.0		290.0
Judson silt loam	197.0		66.0		263.0
Bremer silty clay loam	12.0				12.0
TOTAL	96,020.0	4.0	4,836.0	9.0	100,869.0

Table #24.

Date of Survey 1934-1935

WEST TARKIO CREEK PROJECT, IOWA-1
PROPORTIONATE EXTENT OF SOIL TYPES ON EACH LAND USE CLASS
ENTIRE PROJECT

SOIL TYPE	CROP LAND PERCENT	IDLE LAND Percent	PASTURE Percent	WOODLAND Percent	ENTIRE PROJECT Percent
Marshall silt loam	63.2	100.0	18.4	88.9	61.0
Colluvial deposits (base of slope)	*				*
Wabash silt loam	9.5		41.8		11.1
Wabash silty clay loam	0.4		0.8		0.4
Wabash silt loam (colluvial phase)	14.5		24.8	11.1	15.0
Shelby silt loam	9.0		9.1		9.0
Shelby loam	2.8		3.6		2.8
Shelby loam (eroded phase)	0.1				0.1
Shelby clay (black)	*				*
Page silt loam (friable subsoil)	0.3		0.1		0.3
Judson silt loam	0.2		1.4		0.3
Bremer silty clay loam	*				*
TOTALS, PERCENT	100.0	100.0	100.0	100.0	100.0
AREA IN ACRES	96,020.0	4.0	4,836.0	9.0	100,869.0

* Less than 0.05 of 1%.

Table #25.

Date of Survey 1934-1935

WEST TARKIO CREEK PROJECT, IOWA-1
PROPORTIONATE EXTENT OF LAND USE CLASSES ON EACH SOIL TYPE
ENTIRE PROJECT

SOIL TYPE	CROP LAND PERCENT	IDLE LAND PERCENT	PASTURE PERCENT	WOODLAND PERCENT	TOTALS PERCENT	AREA IN ACRES
Marshall silt loam	98.5	*	1.5	*	100.0	61,517.0
Colluvial deposits (base of slope)	100.0				100.0	15.0
Wabash silt loam	81.9		18.1		100.0	11,183.0
Wabash silty clay loam	90.6		9.4		100.0	393.0
Wabash silt loam (colluvial phase)	92.0		8.0	*	100.0	15,088.0
Shelby silt loam	95.2		4.8		100.0	9,122.0
Shelby loam	93.9		6.1		100.0	2,873.0
Shelby loam (eroded phase)	100.0				100.0	102.0
Shelby clay (black)	100.0				100.0	11.0
Page silt loam (friable subsoil)	99.0		1.0		100.0	290.0
Judson silt loam	74.9		25.1		100.0	263.0
Bremer silty clay loam	100.0				100.0	12.0
ENTIRE PROJECT	95.2	*	4.8	*	100.0	100,869.0

* Less than 0.05 of 1%.

Table #26.

Date of Survey 1934-1935

WEST TARKIO CREEK PROJECT, IOWA-1
ACREAGE AND PROPORTIONATE EXTENT OF EROSION CLASSES
IN
ENTIRE PROJECT

Symbol	Description	Acres	Percent
1	No apparent erosion	31,454.0	31.2
2	Slight sheet erosion, less than 25% of surface soil lost	5,108.0	5.1
3	Moderate sheet erosion, 25-50% of surface soil lost	10,032.0	9.9
33	Moderate to severe sheet erosion, 50-75% surface soil lost	25,710.0	25.5
4	Severe sheet erosion, over 75% surface soil lost	28,561.0	28.3
5	Very severe sheet erosion, lower subsoil or parent material exposed	4.0	*
	Total	100,869.0	100.0

* Less than 0.05 of 1%.

Table #28.

Date of Survey 1934-1935

ACREAGE AND PROPORTIONATE EXTENT OF LAND USE CLASSES
IN
ENTIRE PROJECT

Land Use Classes	Acres	Percent
Crop land	96,020.0	95.2
Idle land	4.0	*
Pasture	4,836.0	4.8
Woodland	9.0	*
Total	100,869.0	100.0

* Less than 0.05 of 1%.

Table #29.

Date of Survey 1934-1935

WEST TARKIO CREEK PROJECT, IOWA-1
ACREAGE AND PROPORTIONATE EXTENT OF SLOPE CLASSES
IN ENTIRE PROJECT

Slope Class and Limits	Acres	Percent
A 0-3%	31,849.0	31.6
B 3-7%	22,020.0	21.8
BB 7-12%	44,884.0	44.5
C 12-15%	1,978.0	2.0
D over 15%	138.0	0.1
Total	100,869.0	100.0

Table #30.

Date of Survey 1934-1935

ACREAGE AND PROPORTIONATE EXTENT OF SOIL TYPES
IN ENTIRE PROJECT

SYMBOL	FIELD NAME	ACRES	PERCENT
2	Marshall Silt Loam	61,517.0	61.0
3	Colluvial Deposits (base of slope)	15.0	*
4	Wabash Silt Loam	11,183.0	11.1
6	Wabash Silt Clay Loam	393.0	0.4
7	Wabash Silt Loam (colluvial phase)	15,088.0	15.0
10	Shelby Silt Loam	9,122.0	9.0
11	Shelby Loam	2,873.0	2.8
12	Shelby Loam (eroded phase)	102.0	0.1
13	Shelby Clay (black)	11.0	*
14	Page Silt Loam (friable subsoil)	290.0	0.3
20	Judson Silt Loam	263.0	0.3
21	Bremer Silty Clay Loam	12.0	*
	Total	100,869.0	100.0

* Less than 0.05 of 1%.

Table #32.

Date of Survey 1934-1935

WEST TARKIO CREEK PROJECT, IOWA-1
RELATION OF EROSION TO SLOPE, EXPRESSED IN ACRES
CROP LAND

SLOPE CLASS AND LIMITS	NO APPARENT EROSION 1	SHEET EROSION SLIGHT 2	MODERATE 3	MODERATE TO SEVERE 33	SEVERE 4	VERY SEVERE 5	ALL CROP LAND
	ACRES	ACRES	ACRES	ACRES	ACRES	ACRES	ACRES
A 0-3%	23,801.0	2,930.0	1,284.0	411.0	90.0		28,516.0
B 3-7%	4,133.0	1,535.0	4,479.0	5,653.0	5,844.0		21,644.0
BB 7-12%	63.0	546.0	3,968.0	19,016.0	20,316.0	2.0	43,911.0
C 12-15%	4.0	9.0	56.0	166.0	1,591.0		1,826.0
D over 15%		2.0	2.0	7.0	110.0	2.0	123.0
Total	28,001.0	5,022.0	9,789.0	25,253.0	27,951.0	4.0	96,020.0

Table #33.

PROPORTIONATE EXTENT OF SLOPE CLASSES IN EACH EROSION CLASS
CROP LAND

SLOPE CLASS AND LIMITS	NO APPARENT EROSION 1	SHEET EROSION SLIGHT 2	MODERATE 3	MODERATE TO SEVERE 33	SEVERE 4	VERY SEVERE 5	ALL CROP LAND
	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
A 0-3	85.0	58.3	13.1	1.6	0.3		29.7
B 3-7%	14.8	30.6	45.8	22.4	20.9		22.5
BB 7-12%	0.2	10.9	40.5	75.3	72.7	50.0	45.8
C 12-15%	*	0.2	0.6	0.7	5.7		1.9
D over 15%		*	*	*	0.4	50.0	0.1
Totals, percent	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Area in acres	28,001.0	5,022.0	9,789.0	25,253.0	27,951.0	4.0	96,020.0

* Less than 0.05 of 1%.

Table #34

Date of Survey 1934-1935

WEST TARKIO CREEK PROJECT, IOWA-1
PROPORTIONATE EXTENT OF EROSION CLASSES IN EACH SLOPE CLASS
CROP LAND

EROSION CLASS	SLOPE CLASSES AND LIMITS A 0-3%	B 3-7%	BB 7-12%	C 12-15%	D Over 15%	ALL CROP LAND
	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
No apparent erosion -1	83.5	19.1	0.1	0.2		29.2
Sheet erosion						
Slight -2	10.3	7.1	1.2	0.5	1.6	5.2
Moderate -3	4.5	20.7	9.0	3.1	1.6	10.2
Moderate to severe -33	1.4	26.1	43.3	9.1	5.7	26.3
Severe -4	0.3	27.0	46.4	87.1	89.5	29.1
Very severe -5			*		1.6	*
Totals, percent	100.0	100.0	100.0	100.0	100.0	100.0
Area in acres	28,516.0	21,644.0	43,911.0	1,826.0	123.0	96,020.0

* Less than 0.05 of 1%.

Table #35.

Date of Survey 1934-1935

WEST TARKIO CREEK PROJECT, IOWA-1
RELATION OF EROSION TO SOIL TYPE, EXPRESSED IN ACRES
CROP LAND

SOIL TYPE	NO APPARENT EROSION	SHEET EROSION					ALL CROP LAND
		SLIGHT	MODERATE	MODERATE TO SEVERE	SEVERE	VERY SEVERE	
	1	2	3	33	4	5	
	ACRES	ACRES	ACRES	ACRES	ACRES	ACRES	ACRES
Marshall silt loam	4,434.0	4,814.0	8,891.0	20,880.0	21,590.0	4.0	60,613.0
Colluvial deposits (base of slope)	12.0	1.0		1.0	1.0		15.0
Wabash silt loam	9,148.0		1.0	2.0	9.0		9,160.0
Wabash silty clay loam	356.0						356.0
Wabash silt loam (colluvial phase)	13,829.0	1.0	23.0	20.0	13.0		13,886.0
Shelby silt loam	17.0	160.0	777.0	3,818.0	3,911.0		8,683.0
Shelby loam	8.0	10.0	52.0	381.0	2,247.0		2,698.0
Shelby loam (eroded phase)	1.0		1.0	10.0	90.0		102.0
Shelby clay (black)				3.0	8.0		11.0
Page silt loam (friable subsoil)	1.0	29.0	44.0	138.0	75.0		287.0
Judson silt loam	194.0				3.0		197.0
Bremer silty clay loam	1.0	7.0			4.0		12.0
TOTAL	28,001.0	5,022.0	9,789.0	25,253.0	27,951.0	4.0	96,020.0

Table #36.

Date of Survey 1934-1935

WEST TARKIO CREEK PROJECT, IOWA-1
PROPORTIONATE EXTENT OF SOIL TYPES IN EACH EROSION CLASS
CROP LAND

SOIL TYPE	NO APPARENT EROSION	SHEET EROSION					ALL CROP LAND
		SLIGHT	MODERATE	MODERATE TO SEVERE	SEVERE	VERY SEVERE	
	1	2	3	33	4	5	
	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Marshall silt loam	15.8	96.0	90.9	82.8	77.3	100.0	63.2
Colluvial deposits (base of slope)	*	*		*	*		*
Wabash silt loam	32.7		*	*	*		9.5
Wabash silty clay loam	1.3						0.4
Wabash silt loam (colluvial phase)	49.4	*	0.2	0.1	*		14.5
Shelby silt loam	0.1	3.1	8.0	15.1	14.0		9.0
Shelby loam	*	0.2	0.5	1.5	8.1		2.8
Shelby loam (eroded phase)	*		*	*	0.3		0.1
Shelby clay (black)				*	*		*
Page silt loam (friable subsoil)		0.6	0.4	0.5	0.3		0.3
Judson silt loam	0.7				*		0.2
Bremer silty clay loam		0.1			*		*
TOTALS, PERCENT	100.0	100.0	100.0	100.0	100.0	100.0	100.0
AREA IN ACRES	28,001.0	5,022.0	9,789.0	25,253.0	27,951.0	4.0	96,020.0

* Less than 0.05 of 1%.

Table #37.

Date of Survey 1934-1935

WEST TARKIO CREEK PROJECT, IOWA-1
PROPORTIONATE EXTENT OF EROSION CLASSES IN EACH SOIL TYPE
CROP LAND

SOIL TYPE	NO APPARENT EROSION	SHEET EROSION					TOTALS PERCENT	AREA IN ACRES
		SLIGHT	MODERATE	MODERATE TO SEVERE	SEVERE	VERY SEVERE		
	1 PERCENT	2 PERCENT	3 PERCENT	33 PERCENT	4 PERCENT	5 PERCENT		
Marshall silt loam	7.3	7.9	14.7	34.4	35.7	*	100.0	60,613.0
Colluvial deposits (base of slope)	79.9	6.7		6.7	6.7		100.0	15.0
Wabash silt loam	99.9		*	*	0.1		100.0	9,160.0
Wabash silty clay loam	100.0						100.0	356.0
Wabash silt loam (colluvial phase)	99.6	*	0.2	0.1	0.1		100.0	13,886.0
Shelby silt loam	0.2	1.8	8.9	44.0	45.1		100.0	8,683.0
Shelby loam	0.3	0.4	1.9	14.1	83.3		100.0	2,698.0
Shelby loam (eroded phase)	1.0		1.0	9.8	88.2		100.0	102.0
Shelby clay (black)				27.3	72.7		100.0	11.0
Page silt loam (friable subsoil)	*	10.1	15.4	48.3	26.2		100.0	287.0
Judson silt loam	98.5				1.5		100.0	197.0
Bremer silty clay loam	8.3	58.4			33.3		100.0	12.0
ALL CROP LAND, PERCENT	29.2	5.2	10.2	26.3	29.1	*	100.0	96,020.0

* Less than 0.05%.

Table #38.

Date of Survey 1934-1935

WEST TARKIO CREEK PROJECT, IOWA-1
RELATION OF SLOPE TO SOIL TYPE, EXPRESSED IN ACRES
CROP LAND

SOIL TYPE	SLOPE CLASSES AND LIMITS					ALL CROP LAND ACRES
	A 0-3% ACRES	B 3-7% ACRES	BB 7-12% ACRES	C 12-15% ACRES	D Over 15% ACRES	
Marshall silt loam	4,997.0	21,076.0	33,700.0	816.0	24.0	60,613.0
Colluvial deposits (base of slope)	12.0	3.0				15.0
Wabash silt loam	9,148.0	7.0	5.0			9,160.0
Wabash silty clay loam	356.0					356.0
Wabash silt loam (colluvial phase)	13,807.0	37.0	42.0			13,886.0
Shelby silt loam	5.0	340.0	7,882.0	421.0	35.0	8,683.0
Shelby loam	16.0	130.0	1,929.0	559.0	64.0	2,698.0
Shelby loam (eroded phase)	2.0	7.0	75.0	18.0		102.0
Shelby clay (black)			9.0	2.0		11.0
Page silt loam (friable subsoil)	1.0	10.0	266.0	10.0		287.0
Judson silt loam	165.0	29.0	3.0			197.0
Bremer silty clay loam	7.0	5.0				12.0
TOTAL	28,516.0	21,644.0	43,911.0	1,826.0	123.0	96,020.0

Table
#39.

Date of Survey
1934-1935

WEST TARKIO CREEK PROJECT, IOWA-1
PROPORTIONATE EXTENT OF SOIL TYPES IN EACH SLOPE CLASS
CROP LAND

SOIL TYPE	SLOPE CLASSES AND LIMITS A 0-3% PERCENT	B 3-7% PERCENT	BB 7-12% PERCENT	C 12-15% PERCENT	D Over 15% PERCENT	ALL CROP LAND PERCENT
Marshall silt loam	17.5	97.4	76.7	44.7	19.5	63.2
Colluvial deposits (base of slope)	*	*				*
Wabash silt loam	32.1	*	*			9.5
Wabash silty clay loam	1.2					0.4
Wabash silt loam (colluvial phase)	48.5	0.2	0.1			14.5
Shelby silt loam	*	1.7	18.0	23.1	28.5	9.0
Shelby loam	0.1	0.6	4.4	30.6	52.0	2.8
Shelby loam (eroded phase)	*	*	0.2	1.0		0.1
Shelby clay (black)			*	0.1		*
Page silt loam (friable subsoil)		*	0.6	0.5		0.3
Judson silt loam	0.6	0.1	*			0.2
Bremer silty clay loam	*	*				*
TOTALS, PERCENT	100.0	100.0	100.0	100.0	100.0	100.0
AREA IN ACRES	28,516.0	21,644.0	43,911.0	1,826.0	123.0	96,020.0

* Less than 0.05 of 1%.

Table
#40.

Date of Survey
1934-1935

WEST TARKIO CREEK PROJECT, IOWA-1
PROPORTIONATE EXTENT OF SLOPE CLASSES IN EACH SOIL TYPE
CROP LAND

SOIL TYPE	SLOPE CLASSES AND LIMITS A 0-3% PERCENT	B 3-7% PERCENT	BB 7-12% PERCENT	C 12-15% PERCENT	D Over 15% PERCENT	TOTALS PERCENT	AREA IN ACRES
Marshall silt loam	8.2	34.8	55.7	1.3	*	100.0	60,613.0
Colluvial deposits (base of slope)	80.0	20.0				100.0	15.0
Wabash silt loam	99.8	0.1	0.1			100.0	9,160.0
Wabash silty clay loam	100.0					100.0	356.0
Wabash silt loam (colluvial phase)	99.4	0.3	0.3			100.0	13,886.0
Shelby silt loam	0.1	3.9	90.8	4.8	0.4	100.0	8,683.0
Shelby loam	0.6	4.8	71.5	20.7	2.4	100.0	2,698.0
Shelby loam (eroded phase)	2.0	6.9	73.5	17.6		100.0	102.0
Shelby clay (black)			81.8	18.2		100.0	11.0
Page silt loam (friable subsoil)	*	3.5	93.0	3.5		100.0	287.0
Judson silt loam	83.8	14.7	1.5			100.0	197.0
Bremer silty clay loam	58.3	41.7				100.0	12.0
ALL CROP LAND	29.7	22.5	45.8	1.9	0.1	100.0	96,020.0

* Less than 0.05%.

APPENDIX B

CONSERVATION OPERATION REPORTS

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
OPERATIONS REPORT
ON
WATERSHED ABOVE STREAM GAGING STATION

Region: 5
Project: SCS-Ia-1
Date of Report: January 25, 1939
Report for Cropyear 1934

Watershed Name: West Tarkio Creek
Area of Watershed: 67073 Acres - 104.8 Sq
No. Farms in Watershed: 409
Acres of Farms in Watershed: 66496

ITEM	Unit	BEFORE AGREEMENT	1934 PLANNED	1934 ACTUAL
Clean Tilled Crops	Acres	12000		12000
Erosion Resisting Crops	"	3000		3000
Semi-erosion Resisting Crops	"	4000		4000
TOTAL CROPLAND	"	19000		19000
Decrease in Clean Tilled Crops	"	xxxx		0
Retired from Cultivation	"	xxxx		0
Cropland Winter Protected	"	3400		3400
Approved Rotations Only	Acres	2000		2000
Contour Tillage Only	"	0		0
Appr.Rotations & Contour Tillage Only	"	0		0
Appr.Rotations,Cont.Till.& Strip Cropping Only	"	0		0
Appr.Rotations,Cont.Till.& Terracing Only	"	0	300	300
Appr.Rotations,Cont.Till.,Terracing & Strip Crop.Only	"	0		0
Other Approved Practices	"	0		0
No Erosion Control Practices Used	"	17000		16700
TOTAL CROPLAND	"	19000		19000
TOTAL PASTURE OR RANGE LAND	"	3400		3400
TOTAL PERMANENT HAY LAND	"	400		389
TOTAL WOODLAND	"	0	11	11
TOTAL ORCHARD & VINEYARD	"	0		0
TOTAL OTHER LAND	"	1500		1500
TOTAL ACRES UNDER AGREEMENT	"	24300		24300

No. of Farms Under Agreement	164
Acres Under Treatment (Incl. those completed)	22800
Acres Treatment Completed	0
Acres Pasture Contour Furrowed, Ridged and/or Terraced	0
Acres Perm. Hay Land Terraced	0

GULLY CONTROL OPERATIONS

ITEM	UNIT	AMOUNT
Diversions	Lin.Ft.	3,350
Seeding & Sodding	Sq.Yds.	100,000
Other Planting	Sq.Yds.	50,000
Temporary Dams	No.	1,400
Permanent Dams	No.	6

WATER DEVELOPMENT OPERATIONS

ITEM	UNIT	AMOUNT
Retention Dams	No.	0
Retention Dams	Ac.Ft.	0
Detention Dams	No.	0
Detention Dams	Ac.Ft.	0
Stock Ponds	No.	0
Stock Ponds	Ac.Ft.	0
Springs & Wells		0

Remarks: Agreements were written in 1934, but they all started with the 1935 crop year for land use. See "Notes on Jan. 25, 1939 and Nov. 29, 1940 Reports", Sheets 3 and 9 of this Appendix.

More than 99% of the terraces are graded terraces.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
OPERATIONS REPORT
ON
WATERSHED ABOVE STREAM GAGING STATION

Region: 5
Project: SCS-Ia-1
Date of Report: January 25, 1939
Report for Cropyear 1935

Watershed Name: West Tarkio Creek
Area of Watershed: 67073 Acres - 104.8 Sq.Mi.
No. Farms in Watershed: 409
Acres of Farms in Watershed: 66496

ITEM	Unit	BEFORE AGREEMENT	1935 PLANNED	1935 ACTUAL
Clean Tilled Crops	Acres	20900	15800	15800
Erosion Resisting Crops	"	5000	7000	7000
Semi-erosion Resisting Crops	"	7500	9300	9300
TOTAL CROPLAND	"	33400	32100	32100
Decrease in Clean Tilled Crops	"	xxxx	5100	5100
Retired from Cultivation	"	xxxx	1300	1300
Cropland Winter Protected	"	5800	10000	10000
Approved Rotations Only	Acres	4000	14700	14700
Contour Tillage Only	"	100	0	0
Appr.Rotations & Contour Tillage Only	"	0	3000	3000
Appr.Rotations,Cont.Till.& Strip Cropping Only	"	0	0	0
Appr.Rotations,Cont.Till.& Terracing Only	"	0	600	600
Appr.Rotations,Cont.Till.,Terracing & Strip Crop.Only	"	0	0	0
Other Approved Practices	"	0	0	0
No Erosion Control Practices Used	"	29300	13800	13800
TOTAL CROPLAND	"	33400	32100	32100
TOTAL PASTURE OR RANGE LAND	"	6470	7600	7600
TOTAL PERMANENT HAY LAND	"	600	700	700
TOTAL WOODLAND	"	0	70	70
TOTAL ORCHARD & VINEYARD	"	0	0	0
TOTAL OTHER LAND	"	2600	2600	2600
TOTAL ACRES UNDER AGREEMENT	"	43070	43070	43070

No. of Farms Under Agreement	296
Acres Under Treatment (Incl. those completed)	40470
Acres Treatment Completed	0
Acres Pasture Contour Furrowed, Ridged and/or Terraced	0
Acres Perm. Hay Land Terraced	0

GULLY CONTROL OPERATIONS

ITEM	UNIT	AMOUNT
Diversions	Lin.Ft.	20,000
Seeding & Sodding	Sq.Yds.	200,000
Other Planting	Sq.Yds.	295,000
Temporary Dams	No.	3,000
Permanent Dams	No.	32

WATER DEVELOPMENT OPERATIONS

ITEM	UNIT	AMOUNT
Retention Dams	No.	0
Retention Dams	Ac.Ft.	0
Detention Dams	No.	0
Detention Dams	Ac.Ft.	0
Stock Ponds	No.	0
Stock Ponds	Ac.Ft.	0
Springs & Wells	No.	0

Remarks: See "Notes on Jan. 25, 1939 and Nov. 29, 1940 Reports", Sheets 8 and 9 of this Appendix.
More than 99% of the terraces are graded terraces.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
OPERATIONS REPORT
ON
WATERSHED ABOVE STREAM GAGING STATION

Region: 5
Project: SCS-Ia-1
Date of Report: January 25, 1939
Report for Cropyear 1936

Watershed Name: West Tarkio Creek
Area of Watershed: 67073 Acres - 104.8 Sq.Mi.
No. Farms in Watershed: 409
Acres of Farms in Watershed: 66496

ITEM	Unit	BEFORE AGREEMENT	1936 PLANNED	1936 ACTUAL
Clean Tilled Crops	Acres	21402	16185	16234
Erosion Resisting Crops	"	5863	6362	6485
Semi-erosion Resisting Crops	"	8542	10482	10503
TOTAL CROPLAND	"	35807	33029	33222
Decrease in Clean Tilled Crops	"	xxxxx	5217	5168
Retired from Cultivation	"	xxxxx	2778	2585
Cropland Winter Protected	"	6700	9300	9000
Approved Rotations Only	Acres	5800	12128	13156
Contour Tillage Only	"	204	0	0
Appr. Rotations & Contour Tillage Only	"	0	10249	8667
Appr. Rotations, Cont. Till. & Strip Cropping Only	"	0	1240	1086
Appr. Rotations, Cont. Till. & Terracing Only	"	0	1065	1065
Appr. Rotations, Cont. Till., Terracing & Strip Crop Only	"	0	0	0
Other Approved Practices	"	0	0	0
No Erosion Control Practices Used	"	29803	8347	9248
TOTAL CROPLAND	"	35807	33029	33222
TOTAL PASTURE OR RANGE LAND	"	6091	6331	6294
TOTAL PERMANENT HAY LAND	"	650	3108	2952
TOTAL WOODLAND	"	0	80	80
TOTAL ORCHARD & VINEYARD	"	0	0	0
TOTAL OTHER LAND	"	2700	2700	2700
TOTAL ACRES UNDER AGREEMENT	"	45248	45248	45248

No. of Farms Under Agreement	312
Acres Under Treatment (Incl. those completed)	42548
Acres Treatment Completed	19028
Acres Pasture Contour Furrowed, Ridged and/or Terraced	0
Acres Perm. Hay Land Terraced	0

GULLY CONTROL OPERATIONS

ITEM	UNIT	AMOUNT
Diversions	Lin.Ft.	40,000
Seeding & Sodding	Sq.Yds.	300,000
Other Planting	Sq.Yds.	303,500
Temporary Dams	No.	2,610
Permanent Dams	No.	99

WATER DEVELOPMENT OPERATIONS

ITEM	UNIT	AMOUNT
Retention Dams	No.	0
Retention Dams	Ac.Ft.	0
Detention Dams	No.	0
Detention Dams	Ac.Ft.	0
Stock Ponds	No.	0
Stock Ponds	Ac.Ft.	0
Springs & Wells	No.	0

Remarks: See "Notes on Jan. 25, 1939 and Nov. 29, 1940 Reports", Sheets 3 and 9 of this Appendix.

More than 99% of the terraces are graded terraces.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
OPERATIONS REPORT
ON
WATERSHED ABOVE STREAM GAGING STATION

Region: 5
Project: SCS-Ia-1
Date of Report: January 25, 1939
Report for Cropyear 1937

Watershed Name: West Tarkio Creek
Area of Watershed: 67073 Acres; 104.8 Sq.Mi.
No. Farms in Watershed: 409
Acres of Farms in Watershed: 66496

ITEM	Unit	BEFORE AGREEMENT	1937 PLANNED	1937 ACTUAL
Clean Tilled Crops	Acres	21946	16528	17125
Erosion Resisting Crops	"	6562	9188	5055
Semi-erosion Resisting Crops	"	8325	10102	13615
TOTAL CROPLAND	"	36833	35818	35795
Decrease in Clean Tilled Crops	"	xxxxx	5418	4821
Retired from Cultivation	"	xxxxx	1015	1038
Cropland Winter Protected	"	7400	11800	7237
Approved Rotations Only	Acres	6074	23226	26719
Contour Tillage Only	"	204	0	0
Appr.Rotations & Contour Tillage Only	"	0	8277	4448
Appr.Rotations,Cont.Till.& Strip Cropping Only	"	0	2677	3208
Appr.Rotations,Cont.Till.& Terracing Only	"	0	1567	1382
Appr.Rotations,Cont.Till.,Terracing & Strip Crop Only	"	0	38	38
Other Approved Practices	"	0	0	0
No Erosion Control Practices Used	"	30555	33	0
TOTAL CROPLAND	"	36833	35818	35795
TOTAL PASTURE OR RANGE LAND	"	6673	6388	6529
TOTAL PERMANENT HAY LAND	"	698	1753	1751
TOTAL WOODLAND	"	4	254	114
TOTAL ORCHARD & VINEYARD	"	0	0	0
TOTAL OTHER LAND	"	2766	2761	2785
TOTAL ACRES UNDER AGREEMENT	"	46974	46974	46974

No. of Farms Under Agreement	321
Acres Under Treatment (Incl. those completed)	44189
Acres Treatment completed	31000
Acres Pasture Contour Furrowed, Ridged and/or Terraced	87
Acres Perm. Hay Land Terraced	32

GULLY CONTROL OPERATIONS

ITEM	UNIT	AMOUNT
Diversions	Lin.Ft.	49000
Seeding & Sodding	Sq.Yds	302000
Other Planting	Sq.Yds.	335000
Temporary Dams	No.	3400
Permanent Dams	No.	154

WATER DEVELOPMENT OPERATIONS

ITEM	UNIT	AMOUNT
Retention Dams	No.	0
Retention Dams	Ac.Ft.	0
Detention Dams	No.	0
Detention Dams	Ac.Ft.	0
Stock Ponds	No.	0
Stock Ponds	Ac.Ft.	0
Springs & Wells	No.	0

Remarks: See "Notes on Jan 25, 1939 and Nov. 29, 1940 Reports", Sheets 3 and 9 of this appendix.
More than 99% of the terraces are graded terraces.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
OPERATIONS REPORT
ON
WATERSHED ABOVE STREAM GAGING STATION

Region: 5
Project: SCS-Ia-1
Date of Report: January 25, 1939
Report for Cropyear 1938

Watershed Name: West Tarkio Creek
Area of Watershed: 67073 Acres - 104.8 Sq.Mi.
No. Farms in Watershed: 409
Acres of Farms in Watershed: 66496

ITEM	Unit	BEFORE AGREEMENT	1938 PLANNED	1938 ACTUAL
Clean Tilled Crops	Acres	22258	14118	18590
Erosion Resisting Crops	"	6708	9431	5403
Semi-erosion Resisting Crops	"	8431	9916	13066
TOTAL CROPLAND	"	37397	35465	37065
Decrease in Clean Tilled Crops	"	xxxxx	6140	3668
Retired from Cultivation	"	xxxxx	1932	332
Cropland Winter Protected	"	7516	11077	10053
Approved Rotations Only	Acres	6074	18829	19038
Contour Tillage Only	"	204	0	0
Appr.Rotations & Contour Tillage Only	"	0	7303	3879
Appr.Rotations,Cont.Till.& Strip Cropping Only	"	0	4902	3970
Appr.Rotations,Cont.Till. & Terracing Only	"	0	2979	1963
Appr.Rotations,Cont.Till.,Terracing & Strip Crop.Only	"	0	38	38
Other Approved Practices	"	0	0	0
No Erosion Control Practices Used	"	31119	1414	8171
TOTAL CROPLAND	"	37397	35465	37065
TOTAL PASTURE OR RANGE LAND	"	6750	7006	6643
TOTAL PERMANENT HAY LAND	"	698	2036	839
TOTAL WOODLAND	"	8	337	158
TOTAL ORCHARD & VINEYARD	"	0	28	24
TOTAL OTHER LAND	"	2808	2789	2932
TOTAL ACRES UNDER AGREEMENT	"	47661	47661	47661

No. of Farms Under Agreement	324
Acres Under Treatment (Incl. those completed)	44729
Acres Treatment completed	33097
Acres Pasture Contour Furrowed, Ridged and/or Terraced	87
Acres Perm. Hay Land Terraced	32

GULLY CONTROL OPERATIONS

ITEM	UNIT	AMOUNT
Diversions	Lin.Ft.	55,000
Seeding & Sodding	Sq.Yds.	402,000
Other Planting	Sq.Yds.	386,000
Temporary Dams	No.	3,450
Permanent Dams	No.	256

WATER DEVELOPMENT OPERATIONS

ITEM	UNIT	AMOUNT
Retention Dams	No.	0
Retention Dams	Ac.Ft.	0
Detention Dams	No.	0
Detention Dams	Ac.Ft.	0
Stock Ponds	No.	0
Stock Ponds	Ac.Ft.	0
Springs & Wells	No.	0

Remarks: See "Notes on Jan. 25, 1939 and Nov. 29, 1940 Reports", Sheets 8 and 9 of this Appendix.

More than 99% of the terraces are graded terraces.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
OPERATIONS REPORT
ON
WATERSHED ABOVE STREAM GAGING STATION

Region: 5
Project: Ia-D-1
Date of Report: November 29, 1940
Report for Cropyear: 1939

Watershed Name: West Tarkio Creek
Area of Watershed: 67073 Acres - 104.8 Sq.Mi.
No. Farms in Watershed: 409
Acres of Farms in Watershed: 66496

		BEFORE AGREEMENT	1939 PLANNED	1939 ESTIMATE ACTUAL
Clean Tilled Crops	Acres	22352	16168	17731
Erosion Resisting Crops	"	6713	9499	7387
Semi-erosion Resisting Crops	"	8503	9938	10653
TOTAL CROPLAND	"	37568	35605	35771
Decrease in Clean Tilled Crops	"	xxxx	6184	4621
Retired from Cultivation	"	xxxx	1963	1797
Cropland Winter Protected	"	7516	11145	10337
Approved Rotations Only	Acres	6103	18829	19947
Contour Tillage Only	"	205	0	0
Appr.Rotations & Contour Tillage Only	"	0	7303	3625
Appr.Rotations,Cont.Till.& Strip Cropping Only	"	0	5925	4590
Appr.Rotations,Cont.Till.& Terracing Only	"	0	2979	2427
Appr.Rotations,Cont.Till.,Terracing & Strip Crop.Only	"	0	38	164
Other Approved Practices	"	0	0	0
No Erosion Control Practices Used	"	31260	531	5018
TOTAL CROPLAND	"	37568	35605	35771
TOTAL PASTURE OR RANGE LAND	"	6762	7056	7056
TOTAL PERMANENT HAY LAND	"	705	2036	1870
TOTAL WOODLAND	"	8	342	342
TOTAL ORCHARD & VINEYARD	"	0	28	28
TOTAL OTHER LAND	"	2818	2794	2794
TOTAL ACRES UNDER AGREEMENT	"	47861	47861	47861

No. of Farms Under Agreement	325
Acres Under Treatment (Incl. those completed)	45067
Acres Treatment Completed	45067
Acres Pasture Contour Furrowed, Ridged and/or Terraced	87
Acres Perm. Hay Land Terraced	32

GULLY CONTROL OPERATIONS

ITEM	UNIT	AMOUNT
Diversions	Lin. Ft.	55000
Seeding & Sodding	Sq.Yds.	404420
Other Planting	Sq.Yds.	386000
Temporary Dams	No.	4688
Permanent Dams	No.	301

WATER DEVELOPMENT OPERATIONS

	UNIT	AMOUNT
Retention Dams	No.	0
Retention Dams	Ac.Ft.	0
Detention Dams	No.	0
Detention Dams	Ac.Ft.	0
Stock Ponds	No.	0
Stock Ponds	Ac.Ft.	0
Springs & Wells	No.	0

Remarks: The "actual" figures are estimates, but are considered very close.

See "Notes on Jan. 25,1939-Nov. 29, 1940 Reports",
Sheets 8 and 9 of this Appendix.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
OPERATIONS REPORT
ON
WATERSHED ABOVE STREAM GAGING STATION

Region: 5
Project: Ia-D-1
Date of Report: November 29, 1940
Report for Cropyear 1940

Watershed Name: West Tarkio Creek
Area of Watershed: 67073 Acres - 104.8 Sq.Mi.
No. Farms in Watershed: 409
Acres of Farms in Watershed: 66496

ITEM	Unit	BEFORE AGREEMENT	1940 PLANNED	1940 ESTIMATE ACTUAL
Clean Tilled Crops	Acres	22352	16168	17731
Erosion Resisting Crops	"	6713	9499	7387
Semi-erosion Resisting Crops	"	8503	9938	10633
TOTAL CROPLAND	"	37568	35605	35771
Decrease in Clean Tilled Crops	"	xxxx	6184	4621
Retired from Cultivation	"	xxxx	1963	1797
Cropland Winter Protected	"	7516	11145	10337
Approved Rotations Only	Acres	6103	18829	19847
Contour Tillage Only	"	205	0	0
Appr.Rotations & Contour Tillage Only	"	0	7303	3608
Appr.Rotations,Cont.Till.& Strip Cropping Only	"	0	5925	4567
Appr.Rotations,Cont.Till.& Terracing Only	"	0	2979	2592
Appr.Rotations,Cont.Till.,Terracing & Strip Crop.Only	"	0	38	164
Other Approved Practices	"	0	0	0
No Erosion Control Practices Used	"	31260	531	4993
TOTAL CROPLAND	"	37568	35605	35771
TOTAL PASTURE OR RANGE LAND	"	6762	7056	7056
TOTAL PERMANENT HAY LAND	"	705	2036	1870
TOTAL WOODLAND	"	8	342	342
TOTAL ORCHARD & VINEYARD	"	0	28	28
TOTAL OTHER LAND	"	2818	2794	2794
TOTAL ACRES UNDER AGREEMENT	"	47861	47861	47861

No. of Farms Under Agreement	325
Acres Under Treatment (Incl. those completed)	45067
Acres Treatment Completed	45067
Acres Pasture Contour Furrowed, Ridged and/or Terraced	91
Acres Perm. Hay Land Terraced	34

GULLY CONTROL OPERATIONS

ITEM	UNIT	AMOUNT
Diversions	Lin.Ft.	55860
Seeding & Sodding	Sq.Yds.	406680
Other Planting	Sq.Yds.	386000
Temporary Dams	No.	4688
Permanent Dams	No.	334

WATER DEVELOPMENT OPERATIONS

ITEM	UNIT	AMOUNT
Retention Dams	No.	0
Retention Dams	Ac.Ft.	0
Detention Dams	No.	0
Detention Dams	Ac.Ft.	0
Stock Ponds	No.	0
Stock Ponds	Ac.Ft.	0
Springs & Wells	No.	0

Remarks: The "actual" figures are estimates, but are considered very close.
See "Notes on Jan. 25,1939-Nov. 29, 1940 Reports", Sheets 3 and 9 of this report.

NOTES ON JANUARY 25, 1939 and NOVEMBER 29, 1940 REPORTS

(1) This report covers the area, under SCS agreement, in the West Tarkio Watershed above the USGS silt and stream gaging station near Westboro, Missouri. This is the upstream portion (approximately 65%) of the SCS demonstration project watershed.

(2) The definitions and interpretations of the terms used correspond with the definitions of like terms used with report forms SCS 515, 515a, 231, and RO-531, and as described in the Cost Schedule Manual SCS-AP-10 (Rev. Oct. 18, 1938), except where otherwise stated. These definitions have changed from year to year and it has been necessary to revise old report information to maintain uniformity of definition.

(3) The "Planned" figures represent the plans for the crop year indicated.

(4) In this special report, "cropland winter protected" includes areas with erosion resisting crops, winter grain to be harvested during the year indicated, and green manure and cover crops giving resistance to winter erosion.

(5) Permanent structures include all dams of concrete or masonry, and all earth dams with or without a spillway of permanent material provided the dam impounds a head of six or more feet or has 100 or more cubic yards of fill.

(6) Temporary dams that have failed are not included.

(7) Woodland includes the total area at a given date, not the total area planted prior to that date.

(8) The figures for woodland, terraces and permanent dams were obtained from project technicians, and in some cases do not agree with the figures reported on forms 231 and 515a. For years prior to 1936 the data were obtained from annual reports and from studying a number of other reports and forms, many of which were undated, uninitialled, and unidentified by a number or descriptive title.

(9) Examination of compliance sheets for years prior to 1937 disclosed very little information other than land use, practices and operations being given very little attention. Obtaining this information from early agreements was attempted but only partly successful because, among other deficiencies, project technicians stated that much work was done before agreements were written and that the subsequent agreements were not back dated. For these reasons the 1934 and 1935 figures necessarily are estimates.

(10) The figures for [illegible] 1937 and 1938 are based [illegible] closely on the 515a and 231 reports [illegible] considered reliable.

(11) For all the [illegible] "permanent" figures are usually the 1932-1933 average.

(12) The form used in these reports omits a number of factors which are considered significant. Among these are grassed waterways, and quality of cover of pasture and woodland. A field sampling indicated too few waterways and woodlots for an adequate sample. The small number of existing waterways in itself is significant. The few woodlots, as reported, include only protected areas and should be considered as having good cover.

(13) A field sampling of land use was made before snowfall in December 1938. Statistically this sample is believed adequate, the half sample agreeing with the full sample by errors not exceeding 2% of the total. The classification of pasture used was:

Excellent:	Full stand matted grass
Good:	Grass over four inches tall
Fair:	Grass shorter than four inches
Poor:	Short grass with bare spots

This classification, of course, is not exact but under the conditions existing should give a fair qualitative comparison with corresponding information for Tarkio River Watershed.

The pasture classification found in West Tarkio Watershed is as follows:

Excellent:	11%
Good:	36%
Fair:	39%
Poor:	14%
	100%

(14) All of the records from which this report was compiled, and all notes of explanation concerning its preparation, are on file in the Shenandoah Project office.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
OPERATIONS REPORT
ON
WATERSHED ABOVE STREAM GAGING STATION

Region: V
Project: SCS-Ia-1
Date of Report: February 13, 1939
Report for Cropyear 1938

Watershed Name: West Tarkio Creek Not Under Agreement
Area of Watershed:
No. Farms in Watershed: 85
Acres of Farms in Watershed: 18835

ITEM	Unit	Acres ACTUAL
Clean Tilled Crops	Acres	7530
Erosion Resisting Crops	"	2450
Semi-erosion Resisting Crops	"	5080
TOTAL CROPLAND	"	15060
Decrease in Clean Tilled Crops	"	
Retired from Cultivation	"	
Cropland Winter Protected	"	3000
Approved Rotations Only	Acres	3000
Contour Tillage Only	"	2000
Appr. Rotations & Contour Tillage Only	"	100
Appr. Rotations, Cont. Till. & Strip Cropping Only	"	50
Appr. Rotations, Cont. Till. & Terracing Only	"	10
Appr. Rotations, Cont. Till., Terracing & Strip Crop. Only	"	0
Other Approved Practices	"	0
No Erosion Control Practices Used	"	9900
TOTAL CROPLAND	"	15060
TOTAL PASTURE OR RANGE LAND	"	2530
TOTAL PERMANENT HAY LAND	"	300
TOTAL WOODLAND	"	5
TOTAL ORCHARD & VINEYARD	"	0
TOTAL OTHER LAND	"	940
TOTAL ACRES NOT UNDER AGREEMENT	"	18835

No. of Farms Not Under Agreement	85
Acres Under Treatment (Incl. those completed)	
Acres Treatment Completed	
Acres Pasture Contour Furrowed, Ridged and/or Terraced	0
Acres Perm. Hay Land Terraced	0

GULLY CONTROL OPERATIONS

ITEM	UNIT	AMOUNT
Diversions	Lin.Ft.	0
Seeding & Sodding	Sq.Yds.	0
Other Planting	Sq.Yds.	0
Temporary Dams	No.	200
Permanent Dams	No.	10

WATER DEVELOPMENT OPERATIONS

ITEM	UNIT	AMOUNT
Retention Dams	No.	0
Retention Dams	Ac.Ft.	0
Detention Dams	No.	0
Detention Dams	Ac.Ft.	0
Stock Ponds	No.	0
Stock Ponds	Ac.Ft.	0
Springs & Wells	No.	0

Remarks: See "Notes on Feb. 13, 1939 Report", Sheets 13 and 14 of this Appendix.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
OPERATIONS REPORT
ON
WATERSHED ABOVE STREAM GAGING STATION

Region: V
Project: SCS-Ia-1
Date of Report: February 13, 1939
Report for Cropyear 1938

Watershed Name: West Tarkio Creek
Area of Watershed: 67073 Acres - 104.8 Sq.Mi
No. Farms in Watershed: 409
Acres of Farms in Watershed: 66496

ITEM	Actual %	Acres ACTUAL
Clean Tilled Crops	39.3	26129
Erosion Resisting Crops	11.8	7853
Semi-erosion Resisting Crops	27.3	18143
TOTAL CROPLAND	78.4	52125
Decrease in Clean Tilled Crops	xxxxx	
Retired from Cultivation	xxxxx	
Cropland Winter protected	19.6	13053
Approved Rotations Only	33.2	22038
Contour Tillage Only	3.0	2000
Appr. Rotations & Contour Tillage Only	6.0	3979
Appr. Rotations, Cont. Till. & Strip Cropping Only	6.0	4026
Appr. Rotations, Cont. Till. & Terracing Only	3.0	1973
Appr. Rotations, Cont. Till., Terracing & Strip Crop. Only	0	38
Other Approved Practices	0	0
No Erosion Control Practices Used	27.2	18071
TOTAL CROPLAND	78.4	52125
TOTAL PASTURE OR RANGE LAND	13.8	9173
TOTAL PERMANENT HAY LAND	1.7	1139
TOTAL WOODLAND	.3	163
TOTAL ORCHARD & VINEYARD	0	24
TOTAL OTHER LAND	5.8	3872
TOTAL ACRES	100.0	66496

No. of Farms		409
Acres Under Treatment (Incl. those completed)	67.3	44729
Acres Treatment Completed	49.8	33097
Acres Pasture Contour Furrowed, Ridged and/or Terraced		87
Acres Perm. Hay Land Terraced		32

GULLY CONTROL OPERATIONS

ITEM	UNIT	AMOUNT
Diversions	Lin.Ft.	55,000
Seeding & Sodding	Sq.Yds.	402,000
Other Planting	Sq.Yds.	386,000
Temporary Dams	No.	3,650
Permanent Dams	No.	266

WATER DEVELOPMENT OPERATIONS

ITEM	UNIT	AMOUNT
Retention Dams	No.	0
Retention Dams	Ac.Ft.	0
Detention Dams	No.	0
Detention Dams	Ac.Ft.	0
Stock Ponds	No.	0
Stock Ponds	Ac.Ft.	0
Springs & Wells	No.	0

Remarks: See "Notes on February 13, 1939 Report", [illegible] 11 [illegible] 14 [illegible] Index.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
OPERATIONS REPORT
ON
WATERSHED ABOVE STREAM GAGING STATION

Region: V
Project: SCS-Ia-1
Date of Report: February 13, 1939
Report for Cropyear 1938

Watershed Name: Tarkio River Watershed
Area of Watershed: 128000 Acres - 200 Sq.Mi.
No. Farms in Watershed: 800
Acres of Farms in Watershed 127,000

ITEM	Actual %	Actual Acres
Clean Tilled Crops	34.0	43200
Erosion Resisting Crops	9.0	11400
Semi-erosion Resisting Crops	27.0	34300
TOTAL CROPLAND	70.0	88900
Decrease in Clean Tilled Crops	xxxxxx	
Retired from Cultivation	xxxxxx	
Cropland Winter Protected	12.6	16000
Approved Rotations Only	23.3	29600
Contour Tillage Only	1.2	1500
Appr. Rotations & Contour Tillage Only	1.3	1700
Appr. Rotations, Cont. Till. & Strip Cropping Only	.7	900
Appr. Rotations, Cont. Till. & Terracing Only	.2	190
Appr. Rotations, Cont. Till., Terracing & Strip Crop. Only	0	40
Other Approved Practices	0	0
No Erosion Control Practices Used	43.3	54970
TOTAL CROPLAND	70.0	88900
TOTAL PASTURE OR RANGE LAND	21.6	27500
TOTAL PERMANENT HAY LAND	2.4	3000
TOTAL WOODLAND	.5	600
TOTAL ORCHARD & VINEYARD	0	10
TOTAL OTHER LAND	5.5	6990
TOTAL ACRES	100.0	127000

No. of Farms		800
Acres Under Treatment (Incl. those completed)	9.2	11736
Acres Treatment Completed	6.7	8551
Acres Pasture Contour Furrowed, Ridged and/or Terraced		82
Acres Perm. Hay Land Terraced		4

GULLY CONTROL OPERATIONS

ITEM	UNIT	AMOUNT
Diversions	Lin.Ft.	6,000
Seeding & Sodding	Sq.Yds.	450,000
Other Planting	Sq.Yds.	250,000
Temporary Dams	No.	1,300
Permanent Dams	No.	45

WATER DEVELOPMENT OPERATIONS

ITEM	UNIT	AMOUNT
Retention Dams	No.	0
Retention Dams	Ac.Ft.	0
Detention Dams	No.	0
Detention Dams	Ac.Ft.	0
Stock Ponds	No.	0
Stock Ponds	Ac.Ft.	0
Springs & Wells	No.	0

Remarks: See "Notes on Feb. 13, 1939 Report", Sheets 13 and 14 of this Appendix.

NOTES ON FEBRUARY 13, 1939 REPORT

(1) Each watershed includes only the area above the respective USGS silt and stream gaging station.

(2) The figures for all of West Tarkio Creek Watershed are the sum of the figures for the part not under SCS agreement plus the figures for the part under SCS agreement, as reported January 25, 1939.

(3) The definitions and other applicable comments made in "Notes on January 25, 1939 and November 29, 1940 Reports" apply to this report.

(4) The terraces referred to in all cases are predominantly graded terraces.

(5) Greatest reliance for land use data for this report was placed on field sampling. The information on practices and operations was obtained from records of field sampling by various project technicians, and from examination of reports submitted by the Red Oak and Clarinda CCC camp technicians. Cognizance was taken of spread of practices in both watersheds, and of areas of farms under project agreement part of which were in Tarkio River Watershed.

AAA records were found to be inadequate in a number of respects, even for study of land use; for example, seeding failures were reported as such with no statement as to subsequent land use.

The information on land use was obtained from field sampling, mostly during December 1938, with checks on its adequacy by comparison of similar sampling of areas of known land use, comparing area ratios, and part samples vs. full samples.

The land use sampling may be briefly described as follows:

East and West strips one mile wide, one in each township, were sampled by driving a car along the edge of the strip and noting the land use at each tenth of a mile speedometer reading.

It was necessary from the nature of the sampling to correct for the excessive number of points indicating buildings and lots. This number was reduced to 5% of the area, comparing with areas of known distribution showing a comparable high portion of building and lot areas in the sample.

The cover value of pasture was defined and classified the same as for the January 25, 1939 and November 29, 1940 reports. The percentage distribution is as follows:

	Tarkio River Watershed	West Tarkio Creek Watershed
Excellent	9	11
Good	41	36
Fair	30	39
Poor	20	14
	100	100

(6) A complete description of the field sampling, including the original log and all other details of preparation of this report, are on file in the project office at Shenandoah, Iowa.